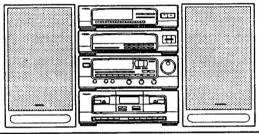
aiwa



Z-D8100M



COMPACT DISC STEREO SYSTEM

• BASIC TAPE MECHANISM : 2ZM - 1P1N,R1N

• BASIC CD MECHANISM: KSM - 2101ABM

• TYPE. EE,HE,LH,EEZ

↑ This service manual contains service information for only altered and added sections of Model Z – D8100M.

If requiring other service information, see the service manual of Model Z – D7000M (S/M Code No. 0266). + 1086 1/26/63/4

CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	GRAPHIC EQUALIZER	SPEAKER	CD PLAYER (OPTIONAL)	TURNTABLE (OPTIONAL)
Z - D8100M LH,HE	MX – Z8100M	FX - WZ9100	TX - Z9100	GE - Z9100	SX - Z9100	DX - Z9100M	PX - E900
Z – D8100M EE,EEZ	MX – Z8100M	FX – WZ9100	TX - Z9100	GE – Z9100	SX - Z9100	DX - Z9100M	PX - E800

SPECIFICATIONS

TUNER TX-Z9100

<FM section>

Frequency range Usable sensitivity (IHF)

Alternate channel selectivity Signal-to-noise ratio Harmonic distortion

87.5 MHz to 108 MHz 2.2 µV (75 ohms) 18.2 dBf 50 dB (±400 kHz) 70 dB (STEREO), 78 dB (MONO)

0.3% (MONO), 1 kHz 0.8% (STEREO), 1 kHz

Frequency response Stereo separation

20 Hz to 15 kHz (+0.5 dB/-3 dB) 40 dB at 1 kHz

Antenna

75 ohms (unbalanced)

<AM section: YH, YLH>

Frequency range

YH: 531 (530) kHz to 1,602 (1,710) kHz YLH: 530 (531) kHz to 1,710 (1,602) kHz 300 uV/m

Usable sensitivity Selectivity Signal-to-noise ratio Antenna

22 dB (9 kHz) 53 dB (100 dB input) Loop antenna

<MW section: YEE, YEZ>

Frequency range Usable sensitivity Selectivity Signal-to-noise ratio 522 kHz to 1,611 kHz 400 μV/m 22 dB (9 kHz) 53 dB (100 dB input) Loop antenna

<LW section: YEE, YEZ>

Frequency range Usable sensitivity Antenna

Antenna

144 kHz to 290 kHz 1,000 µV/m Loop antenna

<Timer section and general>

Program timer Sleep timer

"Once" and/or "every"

Capable of setting in 10-minute increments.

99 minutes maximum

Dimensions (W \times H \times D)

Weight

 $360 \times 88 \times 315$ mm ($14\frac{1}{4} \times 3\frac{1}{2} \times 12\frac{1}{2}$ in.)

2.3 kg (5.28 lb.)

AMPLIFIER MX-Z8100

Power output

HE, LH: 75 W + 75 W (6 ohms, T.H.D. 10%, 1 kHz) EE, EZ: 65 W + 65 W (6 ohms, T.H.D. 1%, 1 kHz) Rear: 15 W + 15 W (16 ohms)

Harmonic distortion 0.1% (25 W, 1 kHz, 6 ohms)

Input sensitivity (load impedance)

VIDEO 1/DAT: 300 mV (39 kohms) VIDEO 2/AUX: 500 mV (39 kohms) PHONO IN: 500 mV or more (36 kohms)

Signal-to-noise ratio

Power requirements

80 dB HE, LH: 120/220/240 V AC selectable, 50/60 Hz

EE, EZ: 230 V AC, 50 Hz

Power consumption

HE, LH: 140 W (System total 170 W) EE, EZ: 360 W (System total 400 W)

Dimensions (W \times H \times D)

360 × 128 × 332 mm (141/4 × 51/6 × 131/6 in.)

Weight

HE, LH: 7.4 kg (16.28 lb.) EE, EZ: 9.1 kg (20.02 lb.)

CASSETTE DECK FX-WZ9100

Track format

4 tracks, 2 channels

Frequency response

METAL tape: 20 - 17,000 Hz CrO₂ tape: 20 - 16,000 Hz Normal tape: 20 - 15,000 Hz

Signal-to-noise ratio

70 dB (DOLBY C NR ON, METAL tape peak level

above 5 kHz)

Wow and flutter

0.12% (WRMS) ± 0.19% (WPEAK)

Tape speed

4.8 cm/sec. (17/8 ips) 9.5 cm/sec. (double speed)

Rewind time Fast forward time 120 sec. (C-60) 120 sec. (C-60) Recording system Erase system

AC bias AC erase

DC servomotor × 2 Motor

Playback head × 1 (deck 1) Heads

Record/playback/erasure head × 1 (deck 2) $360 \times 128 \times 309.5 \text{ mm} (14^{1}/_{4} \times 5^{1}/_{8} \times 12^{1}/_{4} \text{ in.})$

Dimensions (W \times H \times D)

3.0 kg (6.6 lb.)

GRAPHIC EQUALIZER GE-Z9100

Input Output

Weight

210 mV (47 kohms) 210 mV (47 kohms)

Dimensions (W \times H \times D)

 $360 \times 88 \times 308 \text{ mm} (14^{1}/_{4} \times 3^{1}/_{2} \times 12^{1}/_{4} \text{ in.})$

Weight

2.2 kg (4.84 lb.)

SPEAKER SX-Z9100

Cabinet type Speaker

3 way, bass reflex 220 mm cone type woofer 60 mm cone type tweeter

30 mm ceramic type super tweeter

Impedance

6 ohms 80 W

Music power 90 dB/W/m Output sound pressure level

Dimensions (W \times H \times D)

290 × 530 × 230 mm (111/2 × 207/e × 91/e in.)

Weight

7.3 kg (16 lb. 2 oz.)

COMMON SECTION

Power requirements

HE, LH: 120/220/240 V AC selectable, 50/60 Hz

EE, EZ: 230 V AC, 50 Hz

Dimensions (W \times H \times D)

 $940 \times 530 \times 332$ mm $(37^{1/a} \times 20^{7/a} \times 13^{1/a} \text{ in.})$ (vertical placement)

 $1,300 \times 530 \times 332$ mm $(51^{1}/_{4} \times 20^{7}/_{8} \times 13^{1}/_{8} \text{ in.})$ (horizontal placement)

Weight

HE, LH: 29.5 kg (64.9 lb.) EE, EZ: 31.2 kg (68.64 lb.)

 Design and specifications are subject to change without notice.

Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

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Under license from BBE Sound, Inc.

MX - Z8100M

ALTERATION PARTS LIST

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO PART NO.

リンツ

DESCRIPTION

IC

87-027-938-019	IC, TC4053BP
87-027-958-019	IC, TC4051BP
87-017-448-019	IC, GD4052B
87-017-374-019	IC, TC4094BP

MISCELLANEOUS

\triangle	87-050-034-019	AC CORD ASSY, E < HE, EE, EEZ>
A	87-034-749-019 87-085-184-010	AC CORD, H W/PLUG(LH) BUSHING, AC CORD D(LH)
<u> </u>	87-085-185-010	BUSHING, AC CORD E <he, ee,="" eez<="" td=""></he,>

■ ACCESSORIES / PACKAGE LIST (MX - Z8100M)

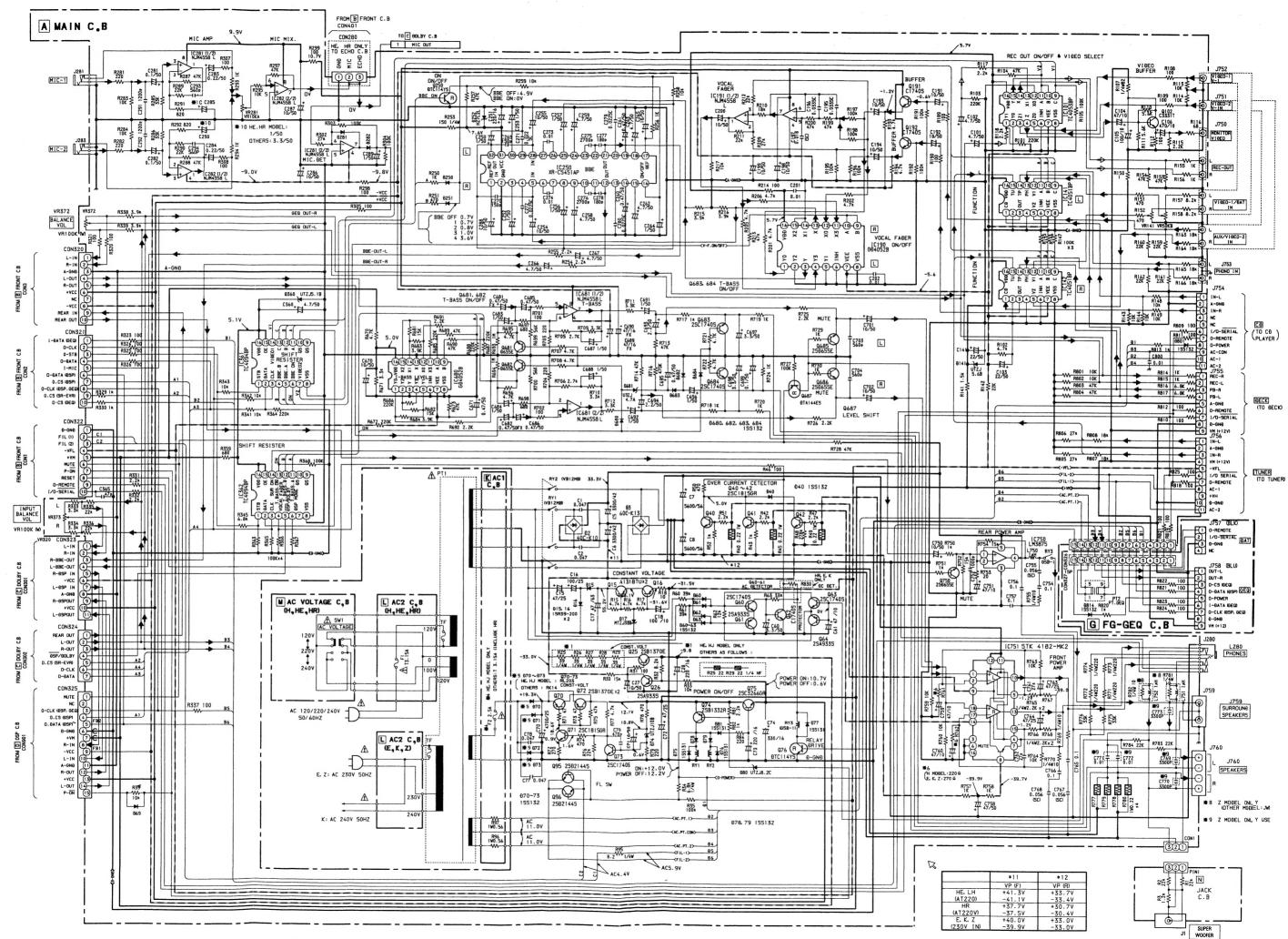
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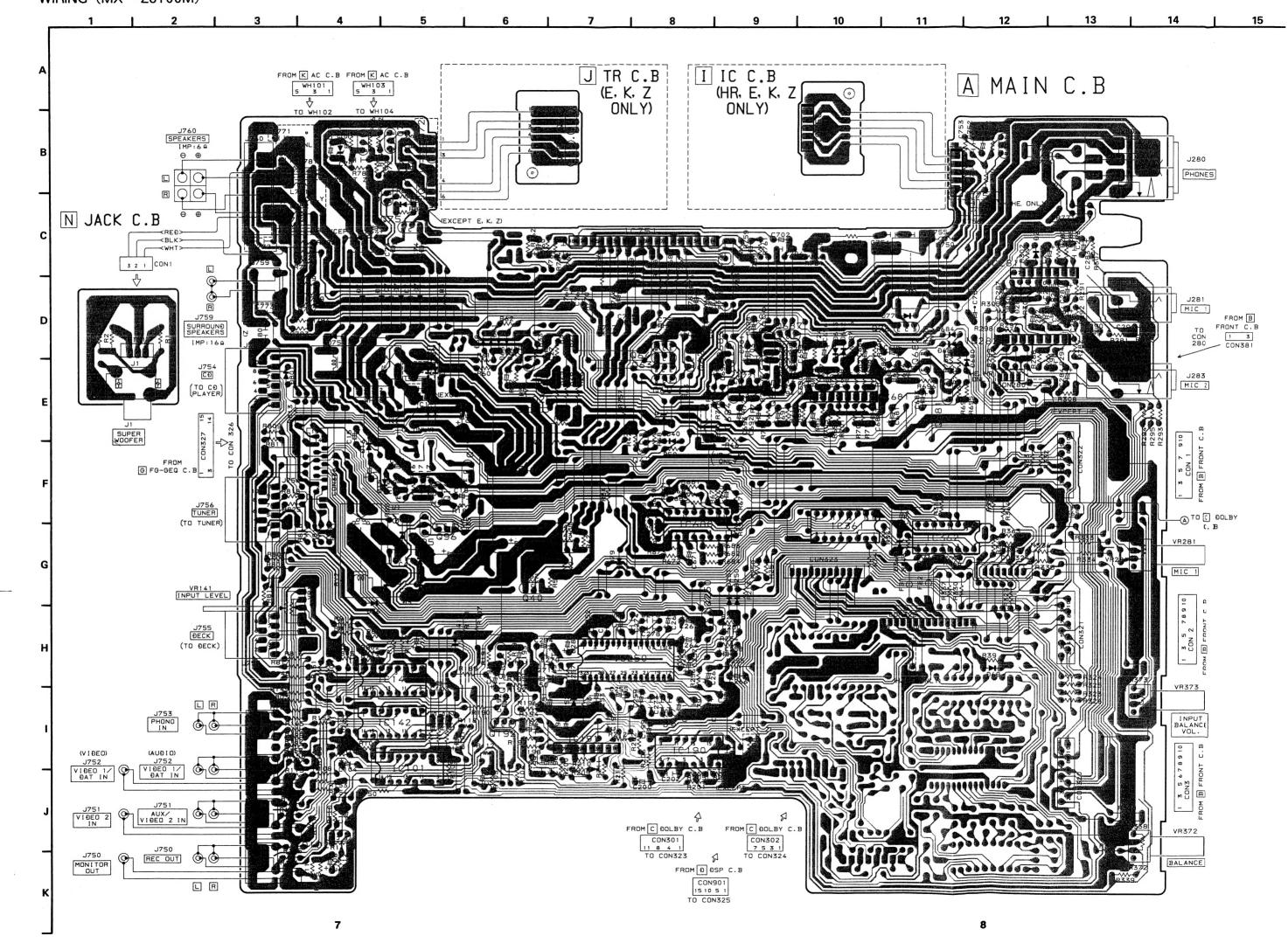
REF. NO PART NO.

カンリ

DESCRIPTION

84-VP4-901-019 2 84-VP4-902-019 3 87-009-724-019 4 87-009-725-019 5 82-VP1-644-019	IB, ESC(S) IB, GFI(S) <ee, eez=""> PLUG, ADPTR IR39 (LH) PLUG, ADPTR IR40 (HE) RC, RC-TZ7000MF (LH, HE)</ee,>
82-VP1-647-019	RC RC-T77000M (FE FE7





ALTERATION PARTS LIST (MX – Z8100M) MECHANICAL PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	82-VP2-011-019 87-050-034-019 87-050-075-019 87-085-184-010 87-085-185-010	AC CORD AS BUSHING, AC	SSY, E (HEJ, EE, EEZ) SSY, H (LH) CORD (LH) CORD (HEJ, EE, EEZ
4 4 4 16	84-VP4-004-019 84-VP4-005-019 84-VP4-007-019 84-VP4-008-019 84-VP4-001-019	PANEL, REAF	R EZBN(EEZ) R LHBN(LH) R HEJBN(HEJ)
16 16 26	84-VP4-002-019 84-VP4-003-019 Not used	CAB, FR (LH) CAB, FR (HE.	

 ${
m FX-WZ9100}$

This service manual contains service information for only altered sections of Model FX – WZ9100.

If requiring other service information, see the service manual of Model FX – WZ7000.

ALTERATION MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

ELECTRICAL MAIN PARTS LIST

REF.NO. PART NO. DESCRIPTION

C216 87-010-197-089 C-CAP,S 0.01-25 B C610 87-010-196-089 C-CAP,S 0.1-25 F

L907 87-003-102-089 COIL,10UH

MECHANICAL PARTS LIST

REF.NO. PART NO. DESCRIPTION

1-3 84-VW1-004-019 PANEL,REAR (YJ)

1-3 84-VW1-005-019 PANEL, REAR (Y)

1-15 09-047-747-010 CAB,FR ASSY

1-17 84-VW1-002-019 BOX,CASS 1

1-18 84-VW1-003-019 BOX,CASS 2

TX - Z9100

This service manual contains service information for only altered sections of Model TX – Z9100.

If requiring other service information, see the service manual of Model TX - Z7000.

ALTERATION PARTS LIST MECHANICAL PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
3 3 3 8	84-VT1-006-019 84-VT1-002-019 84-VT1-005-019 84-VT1-003-019 84-VT1-001-019	PANEL, REAR PANEL, REAR	YLHBN (YLH) YEEBN (YEE) YHJBN (YHJ) YEZBN (YEZ)
17 18	81-VX1-207-110 87-038-039-019	HLDR, WIRE (

GE - Z9100

This service manual contains service information for only altered sections of Model GE-Z9100.

If requiring other service information, see the service manual of Model GE - Z7000.

ALTERATION PARTS LIST MECHANICAL PARTS LIST

DESCRIPTION で判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO PART NO.

カンリ

DESCRIPTION

3 84-VU1-002-019 3 84-VU1-003-019 8 84-VU1-001-019 PANEL, REAR YBN (Y) PANEL, REAR YJBN (YJ) CAB, FR

SX - Z9100

MECHANICAL PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ DESCRIPTION NO.
1 2 3 4 5	84-VS1-002-010 84-VS1-008-010 84-VS1-005-010 84-VS1-602-010 83-NSD-604-010	PANEL W PANEL TW. ASSY GRILL FRAME ASSY SPEAKER WOOFER SPEAKER TWEETER
6 7 8 9	83-149-611-010 83-133-630-010 87-010-006-010 81-672-612-010	TERMINAL (YJ, YL) INDUCTOR O. 3mH (YJ, YL) CAP. E 3.3 µF (YJ, YL) SPEAKER CORD (YJ, YL)

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION ANT

REFERENCE NAME

C-CAP C-CAP TN C-COIL

ANTENNAS CHIP
CAP, CHIP
CAP, CHIP TANTALUM
COIL, CHIP

C-DI C-DIODE C-FET C-FOTR C-JACK

DIODE, CHIP DIODE, CHIP FET, CHIP FILTER, CHIP JACK, CHIP

C-LED C-RES C-SFR C-SLIDE SW C-SW

LED, CHIP RES, CHIP SFR, CHIP SLIDE SWITCH, CHIP SWITCH, CHIP

C-TR C-VR C-ZENER CAP, CER CAP, E

TRANSISTOR, CHIP VOLUME, CHIP ZENER, CHIP CAP, CERA-SOL CAP, ELECT

CAP, M/F CAP, TC CAP, TC-U CAP, TN CERA FIL

CAP, FILM CAP, CERA-SOL CAP, CERA-SOL SS CAP, TANTALUM FILTER, CERAMIC

CF DL E/CAP FILT FLTR

FILTER, CERAMIC DELAY LINE CAP, ELECT FILTER FILTER

FUSE RES MOT P-DIODE P-SNSR

RES, FUSE MOTOR
PHOTO DIODE
PHOTO SENSER
PHOTO TRANSISTOR

POLY VARI PPCAP PT PTR, RES

VARIABLE CAPACITOR CAP. PP POWER TRANSFORMER PTR, MELF REMOTE CONTROLLER

RES NF RESO SHLD SOL

RES, NON-FLAMMABLE RESONATOR SHIELD SOLENOID SPEAKER

SW, LVR SW, RTRY SW, SL TC CAP THMS

SWITCH, LEVER SWITCH, ROTARY SWITCH, SLIDE CAP, SERA-SOL THERMISTOR

TRIMMER TUN-CAP VIB, CER VIB, XTAL

TRANSISTOR CAP, TRIMMER
VARIABLE CAPACITOR
RESONATOR, CERAMIC
RESONATOR, CRYSTAL

ZENER サージサプレッサ セラコン

VOLUME DIODE, ZENER SERGESUPPRESSOR CAP, CERA

サービス技術ニュース						
番号	連絡内容					
G						
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アイワ株式会社 AIWA CO.,LTD.

MECHANICAL SECTION

DESCRIPTION ADHESHIVE AZ BAR-ANT BAT BATT BRG

SHEET ADHESHIVE AZIMUTH BAR-ANTENNA BATTERY BEARING

REFERENCE NAME

BTN CAB CASS CHAS CLR CONT CRSR **CUSH**

CASSETTE CHASSIS COLLAR CURSOR CUSHION CUSHION

BUTTON

DIR DUBB FL FLY-WHL FR

DIRECTION DUBBING FRONT LOADING FLYWHEEL FRONT

FUN G-CU HDL HIMERON HINGE, BAT

FUNCTION G-CUSHION HANDOL CLOTH HINGE, BATTERY

HLDR HT-SINK IB IDLE IND, L-R HOLDER HEAT SINK INSTRUCTION BOOKLET

INDICATOR, L-R

KEY, CONT KEY, PRGM KNOB, SL LBL. LID, BATT

KEY, CONTROL KEY, PROGRAM KNOB, SLIDE LABEL LID, BATTERY

LID, CASS LVR P-SP PANEL, CONT PANEL, FR

LID, CASSETTE LEVER P-SPRING PANEL, CONTROL PANEL, FRONT

PRGM PULLY, LOAD MO RBN SEG

PROGRAM PULLY, LOAD MOTOR RIBBON SEGMENT

SHLD-SH SL

SHEET SHIELD-SHEET SLIDE SPRING

SP-SCREW

SPECIAL-SCREW

SPACER, BAT SPR SPR-P SPR-PC-PUSH T-SP

SPACER, BATTERY SPRING P-SPRING P-SPRING, C-PUSH

TERM TRIG TUN

VOL

TERMINAL TRIGGER TUNING VOLUME WASHER

T-SPRING

WHL WORM-WHL ジグアーム ジグガイド

WHEEL WORM-WHEEL ARM, SHAFT GUIDE, SHAFT

ストラップ トクナベ トクナベ ヒンジビス ビスセレート STRAP S-SCRW HINGE S-SCRW SCRW, SERRART

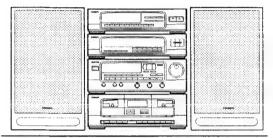
750038 723019, 921502,

Tokyo Japan

BRVICE

aiwa

Z-D7000M



COMPACT DISC STEREO SYSTEM

• BASIC TAPE MECHANISM: 2ZM - 1P1N,R1N

BASIC CD MECHANISM: KSM - 2101ABM

• TYPE. HE,LH,HR,E,K,Z

※ CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	GRAPHIC EQUALIZER	SPEAKER	CD PLAYER (OPTIONAL)	TURNTABLE (OPTIONAL)
Z – D7000M HE,LH,HR	MX – Z7000M	FX – WZ7000	TX - Z7000	GE – Z7000	* 1 SX – Z7000	* 2 DX - Z980M, DX - Z950M, DX - Z900M, DX - Z850, DX - Z830	* 3 PX - E900, PX - E750
Z – D7000M E,K,Z	MX – Z7000M	FX – WZ7000	TX – Z7000	GE – Z7000	※ 1 SX − Z7000	# 2 DX - Z950M, DX - Z900M, DX - Z850, DX - Z830, DX - Z7000M	※3 PX − E800, PX − E750

%1 CENTER SYSTEM dose not have **%**1.

2 As to the service information of CD PLAYER,

see the individual service manual of original.

3 As to the service information of TURNTABLE

see the individual service manual of original.

TABLE OF CONTENTS

• SPECIFICATIONS ·····	
• TRANSISTOR ILLUSTRATION (MX - Z7000M, FX - WZ7000, TX - Z7000, GE - Z7000)	
ACCESSORIES / PACKAGE LIST	
[MX - Z7000M]	
• ELECTRICAL MAIN PARTS LIST	
• IC DESCRIPTION	
• FL/IC BLOCK DIAGRAM – 1	9~14
• BLOCK DIAGRAM – 1·····	15~16
• WIRING – 1	17~18
• SCHEMATIC DIAGRAM – 1····	
• WIRING – 2	23~24
• SCHEMATIC DIAGRAM – 2·····	25~26
• WIRING – 3	27~28
• SCHEMATIC DIAGRAM – 3····	29~30
• BLOCK DIAGRAM – 2·····	31~32
• SCHEMATIC DIAGRAM – 4·····	······ 33~34
• IC BLOCK DIAGRAM – 2······	······ 35~36
• EXPLODED VIEW, MECHANICAL PARTS LIST	
[FX - WZ7000]	38~39
• CAUTIONS WHEN SERVICING	
• ELECTRICAL MAIN PARTS LIST	
• SCHEMATIC DIAGRAM	
• WIRING — 1	43~44
• BLOCK DIAGRAM	····· 45~46
• WIRING – 2	······ 47~48
• FL/IC BLOCK DIAGRAM	49~50
• ADJUSTMENT, PRACTICAL SERVICE FIGURE	51~52
• IC DESCRIPTION	53~54
• EXPLODED VIEW - 1, MECHANICAL PARTS LIST	55~56
• EXPLODED VIEW - 2, MECHANICAL PARTS LIST	
• EXPLODED VIEW - 3, MECHANICAL PARTS LIST	
• SPRING APPLICATION POSITION	
[TX - Z7000]	63
• CAUTIONS WHEN SERVICING	0.4
• ELECTRICAL MAIN PARTS LIST	
BLOCK DIAGRAM	
• SCHEMATIC DIAGRAM – 1, WIRING – 1 (H)	67~68
• SCHEMATIC DIAGRAM - 2, WIRING - 2 (E)	69~72
• SCHEMATIC DIAGRAM - 3, WIRING - 3 (Z)	73~76
• ADJUSTMENT – 1, PRACTICAL SERVICE FIGURE – 1 (H)	
• ADJUSTMENT – 2, PRACTICAL SERVICE FIGURE – 2 (E,Z)·······	81~82
• IC DESCRIPTION	83~84
• EXPLODED VIEW, MECHANICAL PARTS LIST	85~86
[GE - Z7000]	87~88
• CAUTIONS WHEN SERVICING	00
• ELECTRICAL MAIN PARTS LIST	
• IC DESCRIPTION/FL	
• BLOCK DIAGRAM	90~91
• SCHEMATIC DIAGRAM	
• WIRING	93~94
• IC BLOCK DIAGRAM	95~96
• EXPLODED VIEW, MECHANICAL PARTS LIST	98~99
• SPEAKER LIST	
OF EMPLY DIST	100
• REFERENCE NAME LIST	101

SPECIFICATIONS

Heads

TUNER TX-27000 <FM section> Frequency range Usable sensitivity (IHF) Alternate channel selectivity Signal-to-noise ratio Harmonic distortion Frequency response Stereo separation Antenna <AM section> (YH, YLH) Frequency range Usable sensitivity Selectivity Signal-to-noise ratio Antenna <MW section> (YE, YZ) Frequency range Usable sensitivity Selectivity Signal-to-noise ratio Antenna <LW section> (YE, YZ) Frequency range Usable sensitivity **Antenna**

87.5 MHz to 108 MHz 2.2 µV (75 ohms) 18.2 dBf 50 dB (±400 kHz) 70 dB (STEREO), 78 dB (MONO) 0.3% (MONO), 1 kHz

0.8% (STEREO), 1 kHz 20 Hz to 15 kHz (+0.5 dB, -3 dB)

40 dB at 1 kHz 75 ohms (unbalanced)

531 (530) kHz to 1,602(1,710) kHz 400 μV/m

22 dB (9 kHz) 53 dB (100 dB input) Loop antenna

522 kHz to 1.611 kHz

400 μV/m 22 dB (9 kHz) 53 db (100 dB input) Loop antenna

144 kHz to 290 kHz 1,000 µV/m Loop antenna

<Timer section and general> Program timer

"Once" and/or "every" Capable of setting in 10 minute increments, 99 minutes maximum

Dimensions (W \times H \times D) 360 x 88 x 315 mm (141/4 x 31/2 x 121/2 in.)

Weight 2.3 kg (5.28 lb.)

AMPLIFIER MX-27000 Power output

Harmonic distortion

Sleep timer

Front: H. HE. HR:

75W+75W (6 ohms, T.H.D. 10%,

1 kHz) F. K. Z:

65W+65W (6 ohms, T.H.D. 1%,

1 kHz) Rear

15W+15W (16 ohms) 0.1% (25W, 1 kHz, 6 ohms)

Input sensitivity (load impedance)

VIDEO 1/DAT: 300 mV (39 kohms) VIDEO 2/AUX: 500 mV (39 kohms) PHONO IN: 500 mV or more (36 k

ohms) 80 dB Signal-to-noise ratio

Power requirements H, HE, HR: 120/220/240 V AC selectable, 50/60 Hz

E, Z: 230 V AC, 50 Hz K: 240 V AC, 50 Hz

Power consumption

H. HE: 140W (System total 170W) HR: 170W (System total 210W)

E.K.Z

360W (System total 400W) 360 x 128 x 332 mm (141/4 x 51/8 x

131/a in.)

H, HE: 7.4kg (16.28 lb.) Weight HR: 8.3kg (18.26 lb.)

E, K, Z: 9.1kg (20.02 lb.)

CASSETTE DECK FX-WZ7000

Track format Frequency response

Dimensions (W \times H \times D)

4 tracks, 2 channels METAL tape: 20-17,000 Hz CrO₂ tape: 20-16,000 Hz

Signal-to-noise ratio

Normal tape: 20-15,000 Hz 70 dB (DOLBY C NR ON, METAL tape peak level above 5 kHz)

0.12 % (WRMS) ±0.19 % (WPEAK) Wow and flutter 4.8 cm/sec. (17/s ips) Tape speed

9.5 cm/sec. (double speed)

Rewind time 120 sec. (C-60) 120 sec. (C-60) Fast forward time AC bias Recording system Erase system AC erase DC servomotor x 2 Motor

Playback head x 1 (deck 1) Record/playback/erasure head x 1

(deck 2) Dimensions (W \times H \times D) 360 x 128 x 309.5 mm (141/4 x 51/8 x

121/4 in.)

Weight 3.0 kg (6.6 lb.)

GRAPHIC EQUALIZER GE-Z7000

210 mV (47 kohms) Input Output 210 mV (47 kohms)

Dimensions (W×H×D) 360 x 88 x 308 mm (141/4 x 31/2 x

121/4 in.)

2.2 kg (4.84 lb.) Weight

SPEAKER SX-Z7000

3 way, bass reflex Cabinet type 220 mm cone type woofer Speaker 60 mm cone type tweeter

30 mm ceramic type super tweeter

Impedance 6 ohms 80W Music power 90 dB/W/m Output sound pressure level

H, HE, HR: 270 x 530 x 230 mm Dimensions (W×H×D)

(103/4 x 207/8 x 91/8 in.) E, K, Z: 266 x 530 x 230 mm (101/2 x 207/8 x 91/8 in.)

Weight 7.3 kg (16.06 lb.)

COMMON SECTION

tice.

H, HE, HR: 120/220/240 V AC Power requirements

selectable, 50/60 Hz E, Z: 230 V AC, 50 Hz K: 240 V AC, 50 Hz

Dimensions (W \times H \times D) 952 x 520 x 332.5 mm (371/2 x 201/2

x 131/a in.) (vertical placement)

1,312 x 520 x 332.5 mm (513/4 x

201/2 x 131/8 in.) (horizontal placement)

Weight H, HE: 29.5 kg (64.9 lb.) HR: 30.6 kg (67.321b.) E, K, Z: 31.2 kg (68.64 lb.)

Design and specifications are subject to change without no-

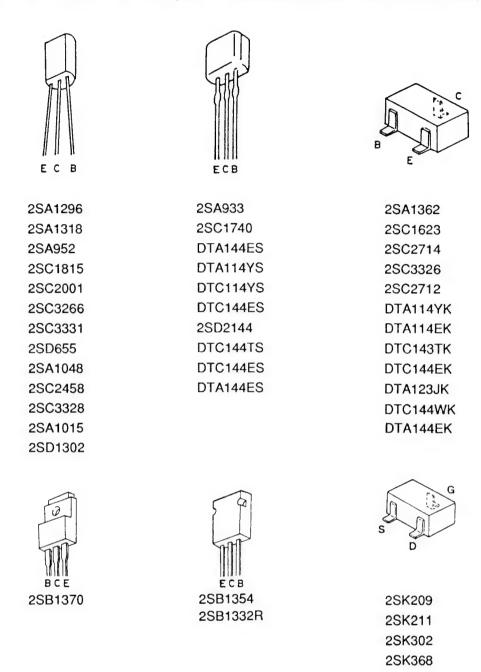
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Under license from BBE Sound, Inc.

TRANSISTOR ILLUSTRATION (MX-Z7000M, FX-WZ7000, TX-Z7000, GE-Z7000)



ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
2 3 4	82-VP1-902-010 82-VP1-904-010 82-VP1-901-010 82-VP1-903-210 87-006-226-010		, Z)
7 8 9	87-006-225-010 81-748-632-010 87-043-106-010 87-009-724-010 87-042-062-010	FEEDER AN' FM, WIRE A PLUG, ADP	NT NC2(H, HE, HR, Z) T FMN(EXCEPT Z) ANT (Z)(Z) TR, IR39(H) R S-16115(HE, HR)
	82-VP1-644-010 82-VP1-647-010		000MF (H, HE, HR) 000ML (EE, K, E, Z)

MX - Z7000M

ELECTRICAL MAIN PARTS LIST (MX - Z7000M)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ויעל DESCRIPTION NO.	REF. NO	PART NO.	カンリ DESCRIPTION NO.
10 .				87-020-339-080 87-017-024-080	
	87-017-016-010 82-VP1-634-010 87-017-311-010 87-001-134-010	IC, CXP82324-1270 IC, M65831FP	MAIN C. B		
	87-002-637-010 87-002-247-010 87-002-727-010 87-002-218-010 87-001-476-010	IC, BU4051B IC, BU4052B IC, NJM4558L IC, XRC5451AP	C1 C2 C3 C4 C5	87-018-208-080 87-018-208-080 87-018-208-080 87-018-208-080 87-016-055-090	CAP, TC-U 0. 047-50 F CAP, TC-U 0. 047-50 F CAP, TC-U 0. 047-50 F
	87-002-278-010 87-020-908-010 87-002-444-010 87-001-396-010 87-017-019-010	IC, LA2730 IC, NJU4066BD IC, BU4094B IC, STK4182-MK2	C6 C7 C8 C15 C16	87-016-055-090 87-016-160-090 87-016-160-090 87-010-260-080 87-010-384-080	CAP, E 5600-56 BSN CAP, E 5600-56 BSN CAP, E 47-25 SME
	87-017-022-080 87-002-214-010 87-017-018-010 87-017-291-010 87-002-279-010	IC, NJM2068M-D(T1) IC, CS5339-KP IC, CXD27010 IC, TMS44C256-10N	C17 C18 C27 C28 C60	87-010-764-080 87-010-263-080 87-010-405-080 87-010-101-080 87-010-403-080	CAP, E 100-10 CAP, E 10-50 SME CAP, E 220-16 SME
	87-017-446-080 87-002-412-080 87-002-409-080 87-020-881-080 87-020-882-080	1C, PCM69AU 1C, SN74HC00NS 1C, SN74HC74NS 1C, NJM78L05A	C61 C70 C71 C72 C73	87-010-374-080 87-010-453-090 87-010-405-080 87-010-260-080 87-010-101-080	CAP, E 4700-25V SME CAP, E 10-50 SME CAP, E 47-25 SME
TRANSISTO	87-001-536-010 R	IC, NJM. 78M05FA	C74 C75 C77 C78 C79	87-010-381-080 87-016-293-010 87-018-208-080 87-018-208-080 87-018-127-080	CAP, E 220-50 BP CAP, TC-U 0. 047-50 F CAP, TC-U 0. 047-50 F
	87-026-462-080 89-320-011-080 87-026-464-080 87-026-245-080 89-113-187-880	TR, 2SC2001K TR, DTC114TS TR, DTC114ES	C101 C102 C103 C104 C105	87-010-404-080 87-010-404-080 87-010-406-080 87-010-374-080 87-010-263-080	CAP, E 4.7-50 SME CAP, E 22-50 SME CAP, E 47-10
	87-026-214-080 87-026-215-080 89-213-702-010 87-026-463-080 89-318-155-080	TR, DTC114YS TR, 2SB1370E TR, 2SA933S (RS)	C106 C141 C191 C192 C193	87-010-221-080 87-010-406-080 87-010-405-080 87-010-405-080 87-010-405-080	CAP, E 470-10 CAP, E 22-50 SME CAP, E 10-50 SME CAP, E 10-50 SME
	89-213-321-080 89-332-665-080 87-026-500-080 89-333-317-880 89-406-555-080	TR, 2SC3266GR TR, 2SD2144S, UV (TP) TR, 2SC3331 TU	C194 C198 C199 C200 C201	87-010-405-080 87-010-405-080 87-010-405-080 87-010-405-080 87-018-134-080	CAP, E 10-50 SME CAP, E 10-50 SME CAP, E 10-50 SME CAP, E 10-50 SME
	87-026-219-080 87-026-211-080 87-026-238-080 89-109-521-080	C-TR, DTA144EK T147 C-TR, DTC144WK	C202 C250 C251 C252 C253	87-018-134-080 87-010-401-080 87-010-101-080 87-010-401-080 87-010-401-080	CAP, TC-U 0.01-16 Y CAP, E 1-50 SME CAP, E 220-16 SME CAP, E 1-50 SME
DIODE	87-002-225-010 87-002-597-060 87-001-912-080 87-020-691-080 87-001-574-080	DIODE, DBF, 60C-K13 ZENER, UTZJ 5. 1B DIODE, 1SS132 T-72	C254 C255 C256 C257 C258	87-010-405-080 87-010-405-080 87-010-401-080 87-010-401-080 87-010-404-080	CAP, E 10-50 SME CAP, E 10-50 SME CAP, E 1-50 SME CAP, E 1-50 SME
	87-002-743-080 87-001-913-080 87-001-911-080 87-017-430-090 87-017-415-090	ZENER, MTZJ 33B ZENER, UTZJ5. 6B ZENER, UTZJ4. 7A (TAPG) DIODE, RK14 (E, K, HR, Z)	C259 C260 C261 C262 C263	87-010-404-080 87-010-400-080 87-010-400-080 87-010-404-080 87-010-404-080	CAP, E 0. 47-50 SME CAP, E 0. 47-50 SME CAP, E 4. 7-50 SME
	87-001-916-080 87-001-559-080 87-002-430-080 87-027-606-080	ZENER, UTZJ10B D10DE, ISS 131 (T-72) ZENER, UTZJ8. 2C	C264 C265 C266 C267 C269	87-010-401-080 87-010-405-080 87-010-404-080 87-010-404-080 87-018-121-080	CAP, E 10-50 SME CAP, E 4.7-50 SME CAP, E 4.7-50 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C270 C273 C274 C275 C276	87-018-121-080 87-018-134-080 87-018-134-080 87-018-198-080 87-018-198-080	CAP, TC-U	150P-50 B 0.01-16 Y 0.01-16 Y 2700P-16 X 2700P-16 X	EMI102 J280 J281 J283 J750	87-008-372-080 87-099-084-010 87-099-064-010 87-099-064-010 81-VP1-634-010	JACK, 6. 3 JACK, 6. 3 JACK, 6. 3	B W/S B W/S
C277 C278 C281 C282 C283	87-018-122-080 87-018-122-080 87-010-544-080 87-010-544-080 87-010-545-080	CAP, TC-U CAP, TC-U CAP, E 0. 1 CAP, E 0. 1 CAP, E 0. 2	180P-50 B 180P-50 B -50 -50 2-50 SME	J751 J752 J753 J755 J759	81-VP1-634-010 81-VP1-634-010 87-009-393-010 87-009-877-010 87-009-393-010	JACK, PIN JACK, PIN CONN, 9P	I 3P I 2P EARTH
C284 C285 C285 C286 C287	87-010-545-080 87-010-401-080 87-010-403-080 87-010-405-080 87-010-405-080	CAP, E 0.2 CAP, E 1-5 CAP, E 3.3 CAP, E 10- CAP, E 10-	2-50 SME :0 SME (HE, HR) 3-50 SME (H, E, K, Z) 50 SME 50 SME	J760 L750 L751 L752 R25	87-033-225-010 87-005-366-010 87-005-366-010 87-005-366-010 87-025-475-080	COIL, 10H COIL, 10H COIL, 10H	1
C288 C289 C290 C290 C291	87-010-405-080 87-010-401-080 87-010-401-080 87-010-403-080 87-018-195-080	CAP, E 10- CAP, E 1-5 CAP, E 1-5 CAP, E 3, 3	50 SME	R27	87-025-475-080 87-022-050-080 87-022-050-080 87-022-050-080 87-022-200-080	RES META RES META RES META	22-1/4WJ(E, K, HR, Z) AL 1W-0.22J AL 1W-0.22J AL 1W-0.22J AL 0.56-1W(H, HE)
C292 C293 C294 C360 C365	87-018-195-080 87-018-128-080 87-018-128-080 87-010-404-080 87-018-115-080	CAP, TC-U CAP, TC-U CAP, TC-U CAP, E 4.7 CAP, TC-U	1200P-16 X 560P-50 B 560P-50 B 7-50 SME 47P-50 SL	R97 R777 R778 R779 R780	87-022-200-080 87-022-050-080 87-022-050-080 87-022-050-080 87-022-050-080	RES META RES META	AL 0.56-1W(H, HE) AL 1W-0.22J AL 1W-0.22J AL 1W-0.22J AL 1W-0.22J
C670 C671 C681 C682 C683	87-010-405-080 87-010-400-080 87-016-072-080 87-016-072-080 87-010-401-080	CAP, E 0. 4 CAP, E 0. 4 CAP, E 0. 4	17-50 SME 17-50 FX 17-50 FX 50 SME		87-045-335-010 87-045-285-010 87-045-285-010 87-045-344-010 81-MT3-631-010	RELAY, VE RELAY, VE RELAY, G	312MB 5B-1 12V
C684 C685 C686 C687 C688	87-010-401-080 87-010-400-080 87-010-400-080 87-010-401-080 87-010-401-080	CAP, E 0. 4 CAP, E 0. 4 CAP, E 1-1	17-50 SME 17-50 SME 50 SME 50 SME	VR281 VR372 VR373 W1 W2	81-VP1-622-010 81-VP1-627-010 81-VP1-627-010 82-VP2-634-110 82-VP2-634-110	VR, 100K) VR, 100K) F-CABLE	
C689 C690 C691	87-016-096-080 87-016-096-080 87-010-401-080	CAP, E 47-	-16 FX -16 FX	FRONT C. E	3		
C692 C693	87-010-401-080 87-010-402-080	CAP, E 1-	50 SME 2-50 SME	C1 C2 C3	87-010-401-080 87-010-401-080 87-010-405-080	CAP, E 1	-50 SME 0-50 SME
C694 C695 C696	87-010-402-080 87-010-400-080 87-010-401-080	CAP, E 0. 4 CAP, E 1-!	JV JML		87-016-088-040 87-010-263-080	CAP, E 10	
C697 C698	87-010-403-080 87-010-403-080	CAP, E 3. CAP, E 3. CAP, E 3. CAP	3-50 SME	C15 C16 C19	87-018-209-080 87-018-134-080 87-018-131-080	CAP, TC-I	U 0.1-50 F U 0.01-16 Y U 1000P-50 B
C699 C701 C702	87-010-544-080 87-010-405-080 87-010-405-080	CAP, E 10 CAP, E 10	-50 SME -50 SME	C20 C21 C22	87-010-401-080 87-010-401-080 87-010-401-080	CAP, E 1	-50 SME
C703 C704 C750	87-018-128-080 87-018-128-080 87-010-405-080) CAP, TC-U	560P-50 B 560P-50 B -50 SME	C23 C24 C160	87-010-404-080 87-010-404-080 87-018-209-080	CAP, E 4.	. 7-50 SME . 7-50 SME U 0. 1-50 F
C751 C752 C756	87-010-374-080 87-018-131-080 87-018-214-080)	-10 1000P-50 B 0.1-50 F	C161 C162	87-010-401-080 87-010-260-080) CAP, E 1	-50 SME 7-25 SME 00-10
C757 C758	87-018-214-086 87-010-408-086) CAP, TC U) CAP, E 47	0.1-50 F -50 SME	C163 C164 C165	87-010-263-080 87-018-201-080 87-018-201-080)	U 5600P-16 X(HE, HR) U 5600P-16 X(HE, HR)
C759 C760 C761	87-010-374-08(87-010-374-08(87-018-111-08(CAP, E 47 CAP, TC-U	-10 27P-50 SL	C166 C167	87-018-131-080 87-018-131-080	CAP. TC-	U 1000P-50 B U 1000P-50 B U 0.1-50 F
C762 C763 C764	87-018-111-080 87-010-260-080	CAP, E 47	27P-50 SL -25 SME -25 SME	C172 C175 FL1 L1	87-018-209-080 87-018-133-080 82-VP1-631-010 87-003-098-080	CAP, TC-I FL, FIP1	U 4700P-16 X 1BYM7
C769 C770 C771	87-010-260-08 87-016-055-09 87-016-055-09 87-018-134-08	O CAP, E 33 CAP, E 33	-25 3MC 00-42 HI-R(Z) 00-42 HI-R(Z) 0.01-16 Y	L2 L3	87-003-098-080 87-003-102-080	COIL, 2.	2UH UH
C772 C773	87-018-134-08 87-018-214-08	O CAP, TC-U	0. 01-16 Y 0. 1-50 F	L4 S1 S2	87-005-153-080 87-036-215-080 87-036-215-080	COIL, 47	
C773 C800 EMI101	87-016-055-09 87-018-134-08 87-008-372-08	0 CAP, E 33 0 CAP, TC-U	00-42 HI-R(Z) 0.01-16 Y MI BL OIRNI	\$3 \$4	87-036-215-080 87-036-215-080	SW, TACT	EVQ21404M EVQ21404M

	REF. NO	PART NO.	カンリ NO .	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	S5 S6 S7 S8 S9	87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080	SW, TACT SW, TACT SW, TACT SW, TACT	EVQ21404M EVQ21404M EVQ21404M EVQ21404M EVQ21404M	C902 C903 C904 C905 C906	87-010-194-080 87-012-349-080 87-012-349-080 87-010-234-080 87-010-234-080	C-CAP, S 1 C-CAP, S 1 CAP, E 47-	0.047-25 F 000P-50 CH 000P-50 CH 16 5L 16 5L
	S10 S11 S12 S13 S14	87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080	SW, TACT SW, TACT SW, TACT SW, TACT SW, TACT	EV021404M EV021404M EV021404M EV021404M EV021404M	C907 C908 C911 C912 C913	87-012-349-080 87-012-349-080 87-016-264-080 87-010-805-080 87-010-263-080	C-CAP, S 1 C-CAP, TN4 C-CAP, S 1	000P-50 CH 000P-50 CH I. 7-6. 3 F950 -16F I-10
	S15 S16 S17 S18 S20	87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080	SW, TACT SW, TACT SW, TACT	EV021404M EV021404M EV021404M EV021404M EV021404M	C915 C916 C917 C918 C919	87-016-264-080 87-010-196-080 87-010-196-080 87-010-318-080 87-010-196-080	C-CAP, S O C-CAP, S O C-CAP, S 4	1. 7-6. 3 F95Q 1. 1-25 F 1. 1-25 F 17P-50 CH 1. 1-25 F
	S21 S22 S23 S24 S25	87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080	SW, TACT SW, TACT SW, TACT	EVQ21404M EVQ21404M EVQ21404M EVQ21404M EVQ21404M	C920 C921 C922 C923 C924	87-010-197-080 87-010-075-080 87-010-075-080 87-010-293-080 87-010-293-080	CAP, E 10- CAP, E 10- C-CAP, 47P	16 5L 16 5L 2-50 CH
	S26 S27 S28 S29 S30	87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080 87-036-215-080	SW, TACT SW, TACT SW, TACT	EV021404M EV021404M EV021404M EV021404M EV021404M	C925 C926 C927 C928 C929	87-010-196-080 87-010-401-080 87-010-405-080 87-010-197-080 87-010-196-080	CAP, E 1-5 CAP, E 10- C-CAP, S 0	60 SME -50 SME),01-25 B
	VR2 X1 X2	82-VP2-636-010 87-008-506-080 87-008-496-080	VIB, CER CERALOCI	(B(HE, HR) 10.0MHZ CST (CST2.09MG(HE, HR)	C930 C931 C933 C934 C936	87-010-196-080 87-010-405-080 87-010-166-080 87-010-194-080 87-010-197-080	CAP, E 10- C-CAP, S 1	
D	OLBY C.B	87-010-404-080	CAP, E 4.	7-50 SME	C937 C938 C939	87-010-317-080 87-010-317-080 87-010-234-080	C-CAP, S 3	39P-50 CH
	C51 C52 C53 C55	87-010-404-080 87-010-260-080 87-010-260-080 87-018-111-080	CAP, E 4 CAP, E 4 CAP, E 4 CAP TC-	7-50 SME 7-50 SME 7-25 SME 7-25 SME J 27P-50 SL	C940 C941	87-010-196-080 87-010-318-080	C-CAP, S 0). 1-25 F 17P-50 CH
	C57 C58 C70 C71 C72	87-010-405-080 87-018-127-080 87-010-404-080 87-010-401-080 87-010-404-080	CAP, E 10 CAP, TC-1 CAP, E 4. CAP, E 1	0-50 SME J 470P-50 B -7-50 SME	C942 C943 C944 C945 C946	87-010-404-080 87-010-197-080 87-010-194-080 87-010-197-080 87-010-404-080	C-CAP, S O C-CAP, S O C-CAP, S O). 01-25 B). 047-25 F). 01-25 B
	C73 C74 C76 C77 C78	87-010-404-080 87-010-404-080 87-010-260-080 87-010-404-080 87-010-404-080	CAP, E 4. CAP, E 4. CAP, E 4. CAP, E 4.	7-50 SME 7-50 SME 7-25 SME 7-25 SME 7-50 SME 7-50 SME	C947 C948 C949 C951 C952	87-010-197-080 87-010-404-080 87-010-404-080 87-010-197-080 87-015-819-080	CAP, E 4. 7 CAP, E 4. 7 C-CAP, S 0	7-50 SME 7-50 SME), 01-25 B
	C79 C80 C81 C82	87-010-404-080 87-010-404-080 87-018-195-080 87-018-195-080	CAP, E 4. CAP, E 4. CAP, TC- CAP, TC-	7-50 SME 7-50 SME J 1200P-16 X J 1200P-16 X J 0.01-16 Y	C956 C960 C961 C966 C967	87-010-197-080 87-010-194-080 87-012-157-080 87-010-805-080 87-010-405-080	C-CAP, S 0 C-CAP, S 3 C-CAP, S 1), 047-25 F 330P-50 CH -16F
	C90 C91 C92 C93 C94	87-018-134-080 87-018-134-080 87-018-134-080 87-018-134-080 87-018-134-080	CAP, TC- CAP, TC- CAP, TC- CAP, TC-	U 0.01-16 Y U 0.01-16 Y U 0.01-16 Y U 0.01-16 Y	C970 C971 C972 C973 C974	87-010-263-080 87-016-264-080 87-016-264-080 87-010-197-080 87-010-401-080	C-CAP, TN4 C-CAP, TN4 C-CAP, S 0	1. 7-6. 3 F951 1. 7-6. 3 F951 1. 01-25 B
	C95 C100 C101 C130 C131	87-018-134-080 87-010-260-080 87-010-260-080 87-010-401-080 87-010-401-080	CAP, E 4 CAP, E 4 CAP, E 1 CAP, E 1	-50 SME	C975 C977 C979 C980 C981	87-010-197-080 87-010-194-080 87-010-263-080 87-010-263-080 87-010-263-080	C-CAP, S 0 CAP, E 100 CAP, E 100). 047-25 F)-10)-10
	C132 C133 C134 C135 C136	87-010-112-080 87-010-406-080 87-010-101-080 87-010-546-080 87-018-203-080	CAP, E 2 CAP, E 2 CAP, E 0 CAP, TC-	2-50 SME 20-16 SME .33-50 SME U 8200P-16 Y	C982 C985 C987 C988 C989	87-010-263-080 87-010-260-080 87-010-307-080 87-018-129-080 87-010-183-080	CAP, E 47- C-CAP, 680 CAP, TC-U	25 SME
	C137 R330	87-018-133-080 87-022-474-050		U 4700P-16 X 10-1/4W J	C990 C992 C993	87-010-183-080 87-010-260-080 87-010-404-080	CAP, E 47- CAP, E 4.7	'-50 SME
0	SP C. B				C994 C997	87-010-404-080 87-010-320-080		-50 SME 8P-50 CH

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO		שׁלֵּת DESCRIPTION NO.
C998 C999 FB1 FB2 FB3	87-010-320-080 87-010-320-080 87-005-521-080 87-005-521-080 87-008-372-080	C-CAP, S 6 C-CAP, S 6 C-COIL, BL C-COIL, BL	8P-50 CH M32A06	IC C. B		
FB4 FB5 FB6 FB7 L901	87-008-372-080 87-008-372-080 87-008-372-080 87-008-372-080 87-005-521-080 87-005-153-080	FILTER, EM Filter, em	I BL OIRNI I BL OIRNI I BL OIRNI M32A06	AC 1 C. B △F2 △F2 R96	87-035-436-010 87-035-366-010 87-022-200-080	FUSE, 2. 5A 250VTE/K (E, K, HR, Z) RES METAL 0. 56-1W(E, K, HR, Z)
L903 L904 X901 X902	87-005-153-080 87-005-153-080 87-030-310-080 87-008-394-080	COIL, 47UH COIL, 47UH VIB, XTAL CF CST 4.	22. 5792	R97 AC 2 C. B AF1 AF1	87-035-191-010 87-035-367-010	FUSE, 3. 15A (H, HE, HR)
C201 C202 C203 C204 C205	87-010-405-080 87-010-405-080 87-010-405-080 87-010-405-080 87-010-404-080	CAP, E 10- CAP, E 10- CAP, E 10- CAP, E 10- CAP, E 4. 7	50 SME 50 SME 50 SME	AC VOLTAG	87-036-173-010 87-036-173-010	
C206 C207 VR1 SUB C. B	87-010-404-080 87-018-205-080 82-VP1-633-010	CAP, TC-U	-50 SME 0.022-25 F ,100KCX1 W/M	MISCELLAN	87-050-034-010 87-050-016-010 87-050-029-010 87-034-749-010 87-085-184-010	AC CORD ASSY, E (E, Z) AC CORD ASSY, K 3P (K) AC CORD, H W/PLUG (H)
FG-GEQ C. J758 PT2	B 87-009-877-410 82-VP1-630-010			△ △PT1 △PT1 △PT1	87-085-185-010 82-VP1-624-010 82-VP1-622-010 82-VP1-625-010	PT, 2VP-1 E, K (E, K, Z) PT, 2VP-1 H (H, HE)

IC DESCRIPTION (MX-Z7000M)

IC, SM5840ES

Pin No.	Pin Name	1/0				Descripti	on						
1	WSL1	I	Input/output data word length select pin 1 (Connect to GND)	Pin WSL1 H H L L	level WSL2 H L H L	Noise shaper OFF ON ON	Onput/output Input bit no. 18bit 18bit 16bit 16bit	Output bit no 20bit 18bit 18bit 16bit					
2	CKI	I	System clock i	input.									
3	CKSL	I	System clock i	System clock input (H: 384fs, L: 256fs).(Conneted to VDD)									
4	СКО	0	System clock	output (t	he CKI	clock is b	ouffered and outpu	t).(unused)					
5	VSS	-	GND.										
6	NC	-	Not connected.										
7	NC	-	Not connected.										
8	WSL2	I	Input/output	data wor	d length	select pi	in 2.(Conneted to	VDD)					
9	DSF1	I	Deemphasis sel	ect	Pin DSF1 L	level DSF2 L	Deem ON/OFF select ON	fs select 44.1kHz					
10	DSF2	I	Deemphasis sel	ect	L H H	H H L	ON ON OFF	48.0kHz 32.0kHz					
11	RST	I	System reset.										
12	ВСКО	0	Output bit clo	ck.									
13	DOR	0	Rch 8fs data	output.	-								
14	DOL	0	Lch 8fs data	output.			MATERIAL MANAGEMENT						
15	WCKO	0	Output word o	lock.									
16	VDD	-	Power pin.			_							
17	NC	_	Not connected.										
18	NC	-	Not connected.			1.11							
19	NC	_	Not connected.										
20	LRCI	. I	Input data san	iple rate	(fs) cloc	ek.							
21	BCKI	I	Input bit clock				-						
22	DIN	I	Input data.										

IC, CXD2701Q

Pin No.	Pin Name	I/O	Description
1	I-MODE	I	Input data format setting terminal. (Connected to VDD)
2	I-DIR	I	input data format setting terminal. (Connected to VDD)
3	I-DATA	I	1-sampling 2-channel serial data input terminal. Data formatted as 2's complement.
4	I-BCK	I	Serial data transmission clock input.
5	I-LRCK	I	Serial I/O sampling clock input. L channel data transmission when "H", R channel data transmission when "L".
6	VSS1	_	GND.
7	O-DATA	О	Serial data output. (2's complement)
8	O-BCK	0	Bit clock output. 64 slots.
9	O-LRK	О	Serial data sampling clock output.
10	BS1	I	Output data bit quantity setting terminal. (Connected to VDD)
11	BS2	I	Output data bit quantity setting terminal. (Connected to GND)
12	O-DIR	I	Output data format setting terminal. (Connected to VDD)
13	VSS3	-	GND.
14	SCK	0	System clock output. fsck = fxt = 512fs
15	XOUT	0	X'tal oscillation circuit output. (22.57MHz)
16	XIN	I	X'tal oscillation circuit input. fxt = 512fs (22.57MHz)
17	VDD1		Power supply. (+5V)
18	I/O4	I/O	
19	I/O3	I/O	Data input/output for external dynamic RAM.
20	CAS	0	Column address strobe output for external dynamic RAM.
21	I/O2	I/O	
22	I/O1	I/O	Data input/output for external dynamic RAM.
23	WE	О	Write enable output for external dynamic RAM. "L" active.
24	A0	О	Address output for external dynamic RAM.
25	RAS	О	Row address strobe for external dynamic RAM.
26	A1	0	
27	A2	О	Address output for external dynamic RAM.
28	VSS2		GND.
29 \$ 34	A3 \$ A8	0	Address output for external dynamic RAM.
35	TEST1	I	
36	TEST2	I	Test terminal. (Connected to GND)
37	TEST3	I	
38	TEST0	О	Test terminal. (Not used)
39	VDD2	T _	Power supply. (+5V)
40	PRGD	I	Serial data input to receive commands, coefficients and control signals from microcomputer.
41	PRGCK	I	Serial clock input for PRGD data. Data is latched at the starting edge of the clock.
42	PRGL	I	Input to latch serial data from microcomputer in IC. "L" active.
43	INIT	I	Initializing input. "L" active. Put in sync again at leading edge.
44	OVF	О	Not used.

IC, CXP82324-12

Pin No.	Pin Name	I/O	Description
1	I-HOLD	I	HOLD input. "L": HOLD mode. "H": Normal mode.
2	I-REMOTE	I	Remote control input.
3	NC		Not used.
4	O-CE (M-EVR)	О	Not used.
5	NC	_	Not used.
6	O-CE (DSP)	О	Strobe output for DSP microcomputer.
7	O-CE (EVR)	О	Strobe output for electrical volume.
8	O-CLK (DSP, GEQ)	О	Clock output for DSP and GEQ.
9	I-DATA (GEQ)	I	Data input from GEQ microcomputer.
10	O-DATA (DSP, GEQ)	О	Data output for DSP and GEQ.
11	O-CLK (4094, etc)	О	Clock for shift register and electrical volume.
12	O-STB SR (4094)	0	Strobe output for shift register.
13	O-DATA (SR, EVR)	0	Data output for shift register and electrical volume.
14	O-CE (GEQ)	О	Strobe output for GEQ microcomputer.
15	I/O-SERIAL	I/O	Serial data for system control.
16 \$ 19	NC		Not used.
20	I-INITIAL	I	Initialize input. (Not used)
21	O-VOL · LED	О	Volume LED control output. LED lights on when "H".
22	I-KEY1	I	
23	I-KEY2	I	A/D input for key input.
24	I-KEY3	I	Key input. (Power)
25	I-KEY4	I	A/D input for key input.
26	O-SP LEVEL		Not used.
27	NC		Not used.
28	I-MIC	I	Microphone input detection A/D port. Vocal fader switched on at an input of over 0.34V in auto vocal fader mode. Reset time: Fast;1 sec., Slow; 4 sec.
29	I-VOL	I	A/D input for volume position detection.
30	RESET	I	Reset input.
31	EXTAL	_	V'ol tamical (10 0MHz)
32	XTAL	_	X'tal terminal. (10.0MHz)
33	VSS	I	GND.
34			
5	NC	_	Not used.
45			
46	O-S14		
\$	\$	О	FL display segment output.
60	O-S0		
61	O-G10		
5	,	0	FL display grid output.
70	O-G1		
71	VFDP		FL display power supply. (-31.4V)

Pin No.	Pin Name	I/O	Description
72	VDD		Power supply. (+5V)
73	NC		Not used.
74	VOL UP	О	Volume control output. (UP)
75	VOL DOWN	О	Volume control output. (DOWN)
76	O-MUTE	О	Mute output. Muting when "H".
77	O-POWER	0	Power control output. Power on when "L".
78	NC	_	
79	NC		Not used.
80	NC	-	

IC, CXP81312-333Q

Pin No.	Pin Name	I/O	Description
1 5 14	NC	О	Not used.
15	I-FADER	I	Connected to GND.
16	I-OVER	I	Not used.
17	I-FSO	I	Connected to GND.
18	I-FS1	I	Connected to GND.
19	O-CLK2701	О	Clock signal for CXD2701 control.
20	O-DATA2701	О	Serial data for CXD2701 control.
21	NC	0	Not used.
22	O-32K	О	Not used.
23	O-48K	0	Not used.
24	O-44.1K	О	Not used.
25	NC	О	Not used.
26	O-DAT	0	Not used.
27	O-DIG A	О	Not used.
28	O-DIG B	О	Not used.
29	O-K MODE	0	Not used.
30	O-STB2701	О	Strobe signal for CXD2701 control.
31	MP	О	Not used. (connected to GND)
32	RST	I	Reset signal for microcomputer.
33	VSS	1 - 1	GND.
34	XTAL	I	
35	EXTAL	_	X'tal terminal. (4.19MHz)
36	CSO	I	Connected to VDD.
37	SIO	I	Connected to VDD.
38	SOO	О	Not used.
39	SCKO	О	Not used.
40	I-STB DSP	I	Strobe signal input from main microcomputer.
41	I-DATA DSP	I	Data input from main microcomputer.
42	VDD	I	Connected to VDD.

Pin No.	Pin Name	I/O	Description
43	I-CLK	I	Clock input from main microcomputer.
44	I-BAND •	I	Connected to GND.
45 \$ 51		I	Connected to GND.
52	VSS		GND.
53	VREF		Connected to VDD.
54	VDD	_	Power supply. (+4.5V)
55 \$ 62	PG7 { PG0	I	Connected to VDD.
63 \$ 68		0	Not used.
69	PEI	I	Connected to VDD.
70	PEO	I	Connected to VDD.
71	NMI	I	Connected to VDD.
72	VDD		Power supply. (+4.5V)
73	VSS	_	GND.
74 \$ 80		О	Not used.

IC, PCM69AU

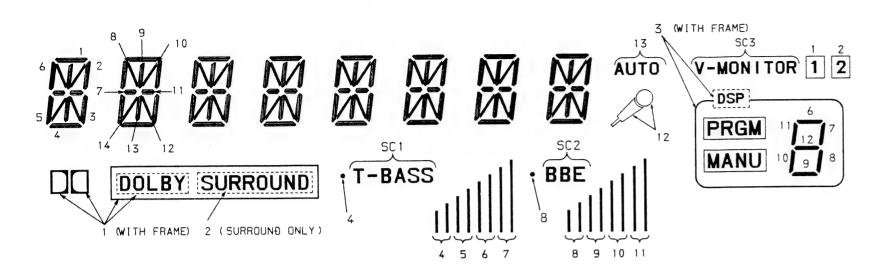
Pin No.	Pin Name	I/O	Description
1	+VCC		Power supply. (+5V)
2	V COM (L)	О	V common for L-channel.
3	NC		Not used.
4	I-OUT (L)	Ο.	Current output for L-channel.
5	SERVO DC	_	Servo filter. Bypassed via capacitor to GND.
6	REF DC	_	Reference filter. Bypassed via capacitor to GND.
7	I-OUT (R)	О	Current output for R-channel.
8	NC		Not used.
9	V COM (R)	0	V common for R-channel.
10	A GND	_	Analog GND.
11	D GND		Digital GND.
12	TP2	I	Test terminal 2. (Connected to GND)
13	DATA (R)	I	Data input for R-channel.
14	BCK	I	Bit clock input.
15	SYS-CLK	I	System clock input.
16	WDCK	I	Word clock input.
17	DATA (L)	I	Data input for L-channel.
18	TP3	I	Test terminal 3. (Not used)
19	TP1	ı	Test terminal 1. (Connected to VDD)
20	+VDD		Power supply. (+4.5V)

IC, TMS44C256-10N

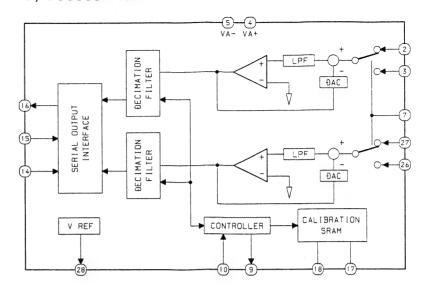
Pin No.	Pin Name	I/O	Description				
1	I/O1	I/O	Data insulfactions				
2	I/O2	I/O	Data input/output.				
3	WE	_	Write enable output.				
4	RAS		Row address strobe signal.				
5	NC		Not used.				
6 \$ 9	A0 \$ A3	1	Address input.				
10	VDD		Power supply. (+5V)				
11 \$ 15	A4 \$ A8	I	Address input.				
16	OE	T	Output enable signal.				
17	CAS		Column address strobe signal.				
18	I/O3	I/O	Day involved				
19	1/04	I/O	Data input/output.				
20	VSS		GND.				

FL/IC BLOCK DIAGRAM-1 (MX-Z7000M)

FL, FIP11BYM7



IC, CS5339-KP

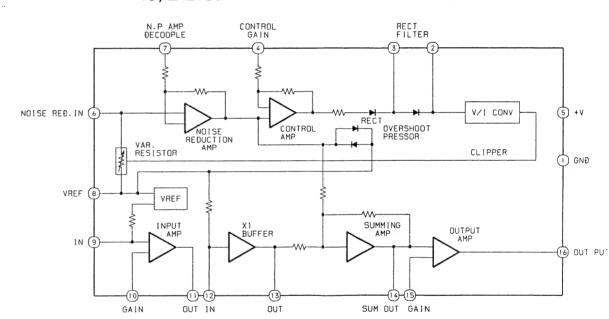


TERMINAL CONNECTION

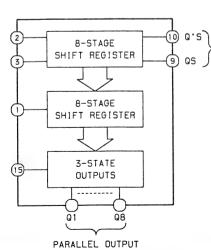
TERMINAL NO. ELECTROĐE	1 F2	2 F2	3 NP	4 P 14	5 P 13	6 P 12	7 P 11	8 P 10	9 P 9	10 P 8	11 P 7	12 P 6	13 P 5	14 P 4	1.5 P 3	16 P 2	1 <i>7</i> P 1	18 P sc3	
TERMINAL NO. ELECTROĐE																			35 F1

NOTES F:FILAMENT NP:NO PIN G:GRIÐ P:ANOÐE

IC, LA2730



IC, BU4094B



Q1:0.ĐOLBY ON Q5:0.PLAY Q2:0.ĐOLBY C Q6:0.PB2 Q3:0.EXT.REC Q7:0.LEĐ

Q4:0.INT.REC Q8:0.RMT

TRUTH TABLE

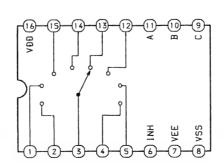
CLOCK	OUTPUT	STROBE	ATAG	PARALLEL	OUTPUTS	SERIAL	OUTPUTS
	OUTPUT			Q1	Q2	QS	Q5
	L	Х	Х	Z	Z	07	NO CHG.
Ł	L	Х	X	Z	Z	NO CHG.	QS
<u>-</u>	Н	L	Х	NO CHG.	NO CHG.	Q7	NO CHG.
· ·	Н	Н	L	L	Qn-1	Q7	NO CHG.
<u></u>	Н	Н	Н	Н	Qn-1	Q7	NO CHG.
7	Н	X	X	NO CHG.	NO CHG.	NO CHG.	QS

Z=HIGH IMPEDANCE X=DON'T CARE

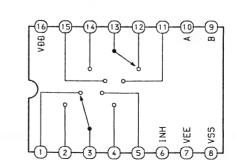
SERIAL

OUTPUT

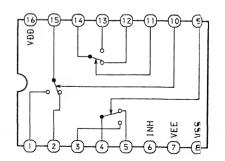
IC, BU4051B

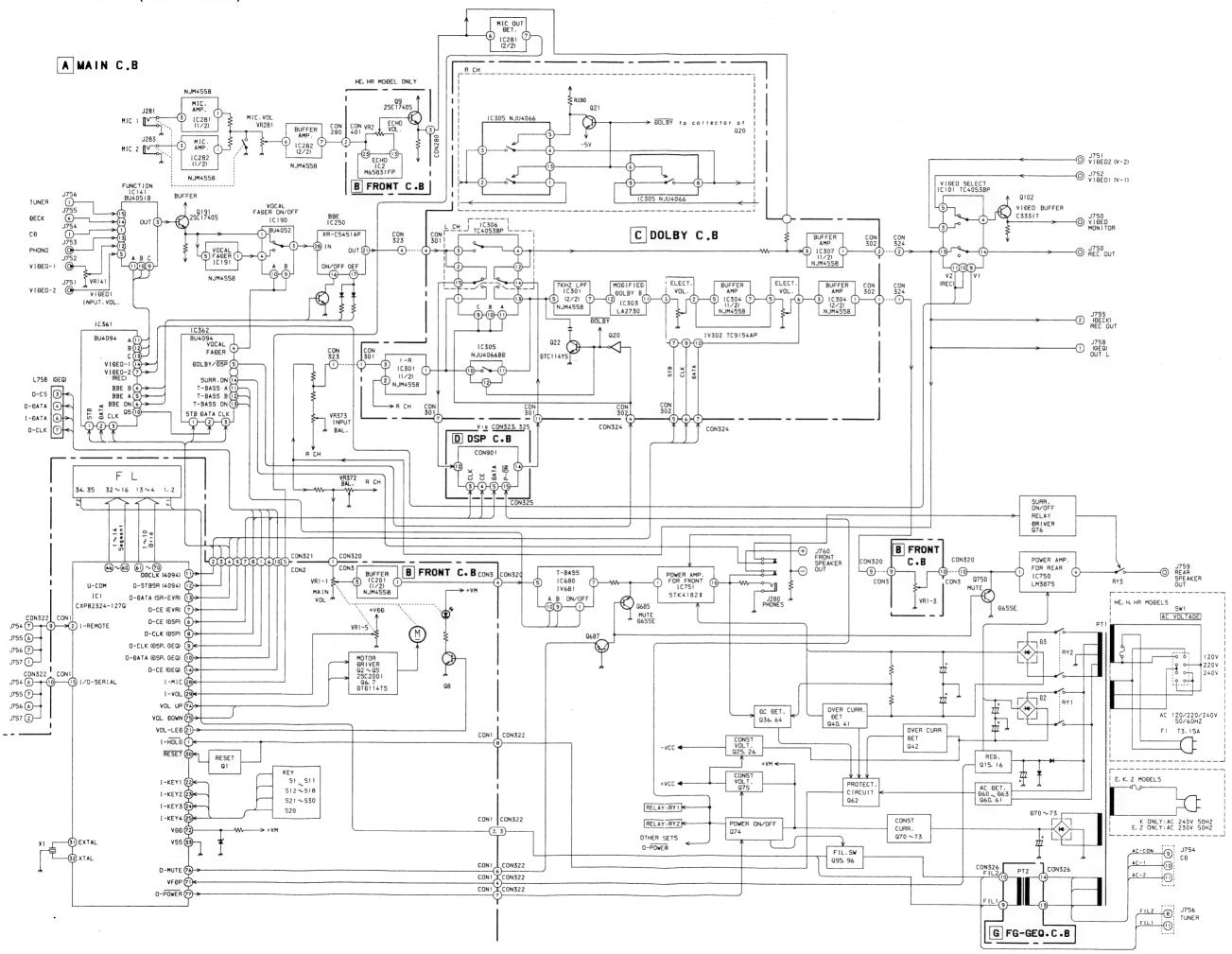


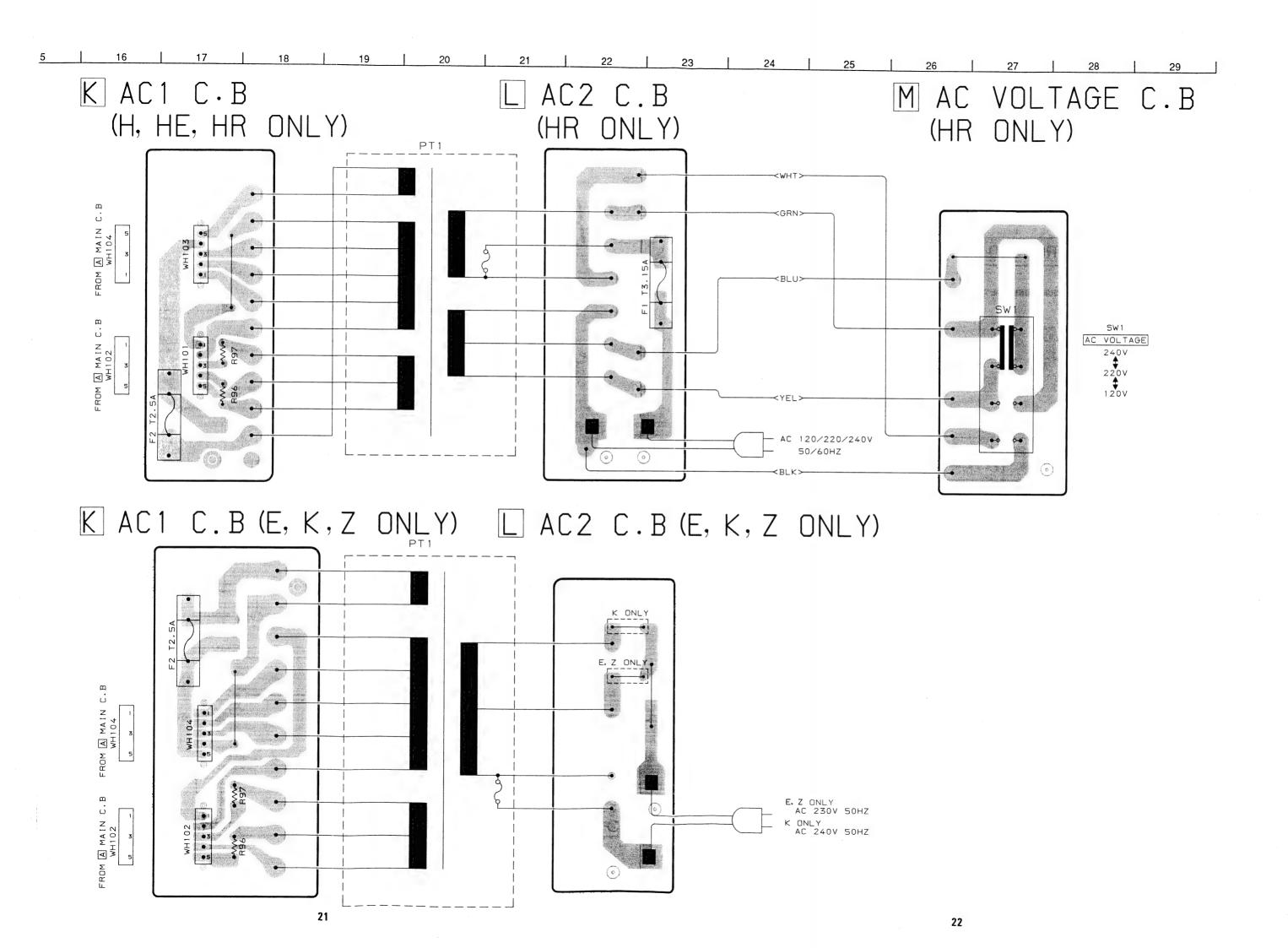
IC, BU4052B

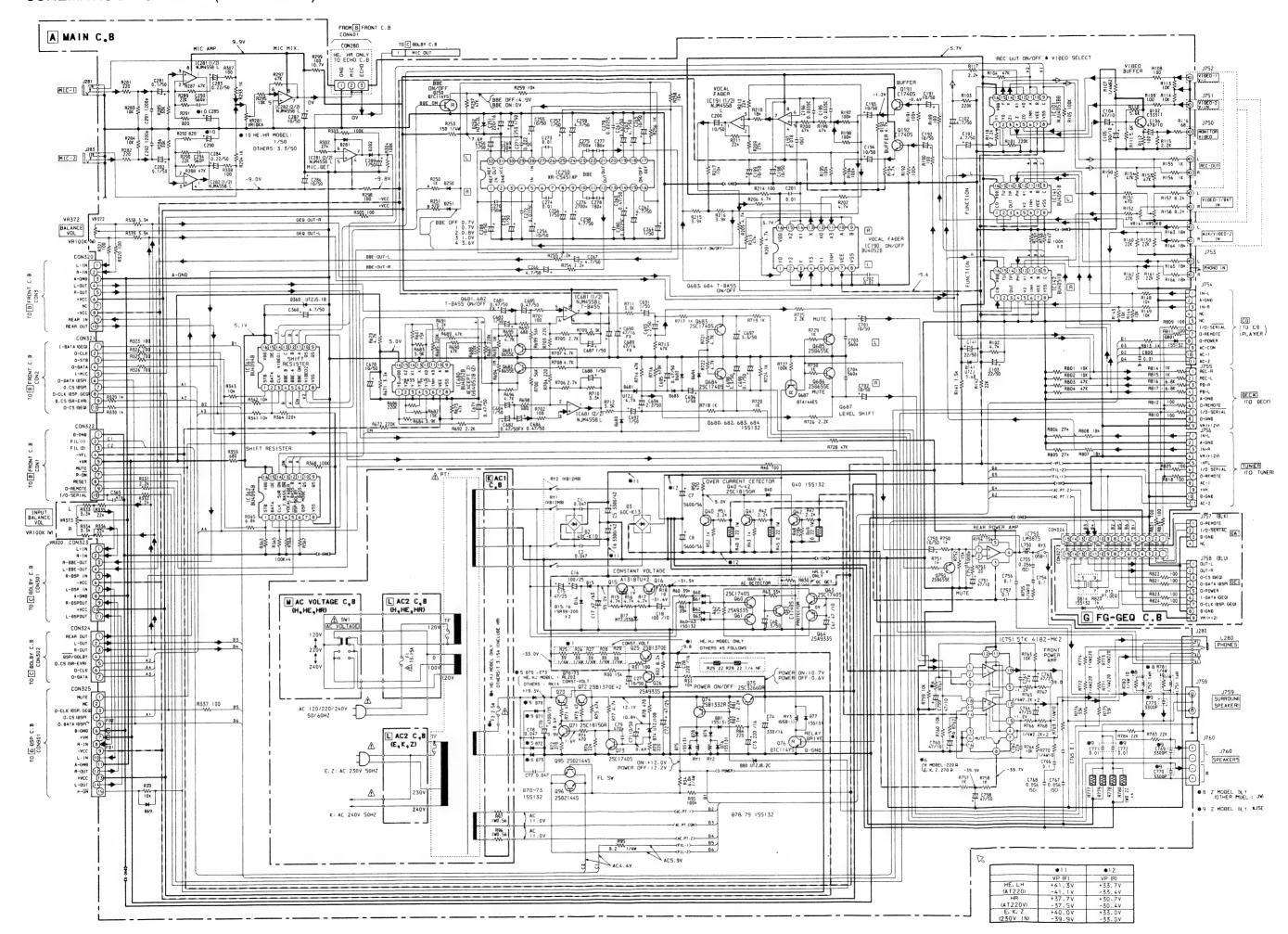


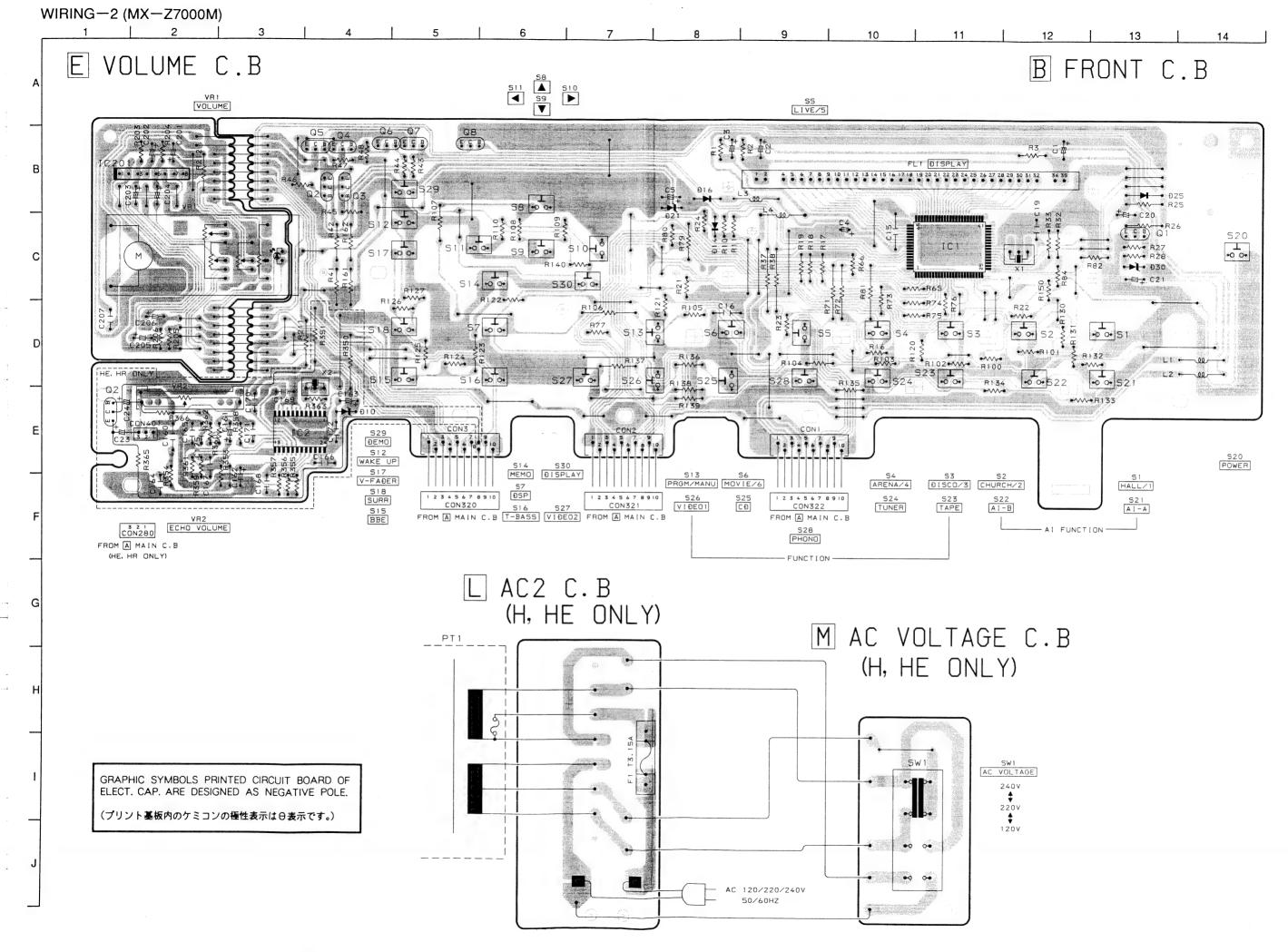
IC, NJU4053BD

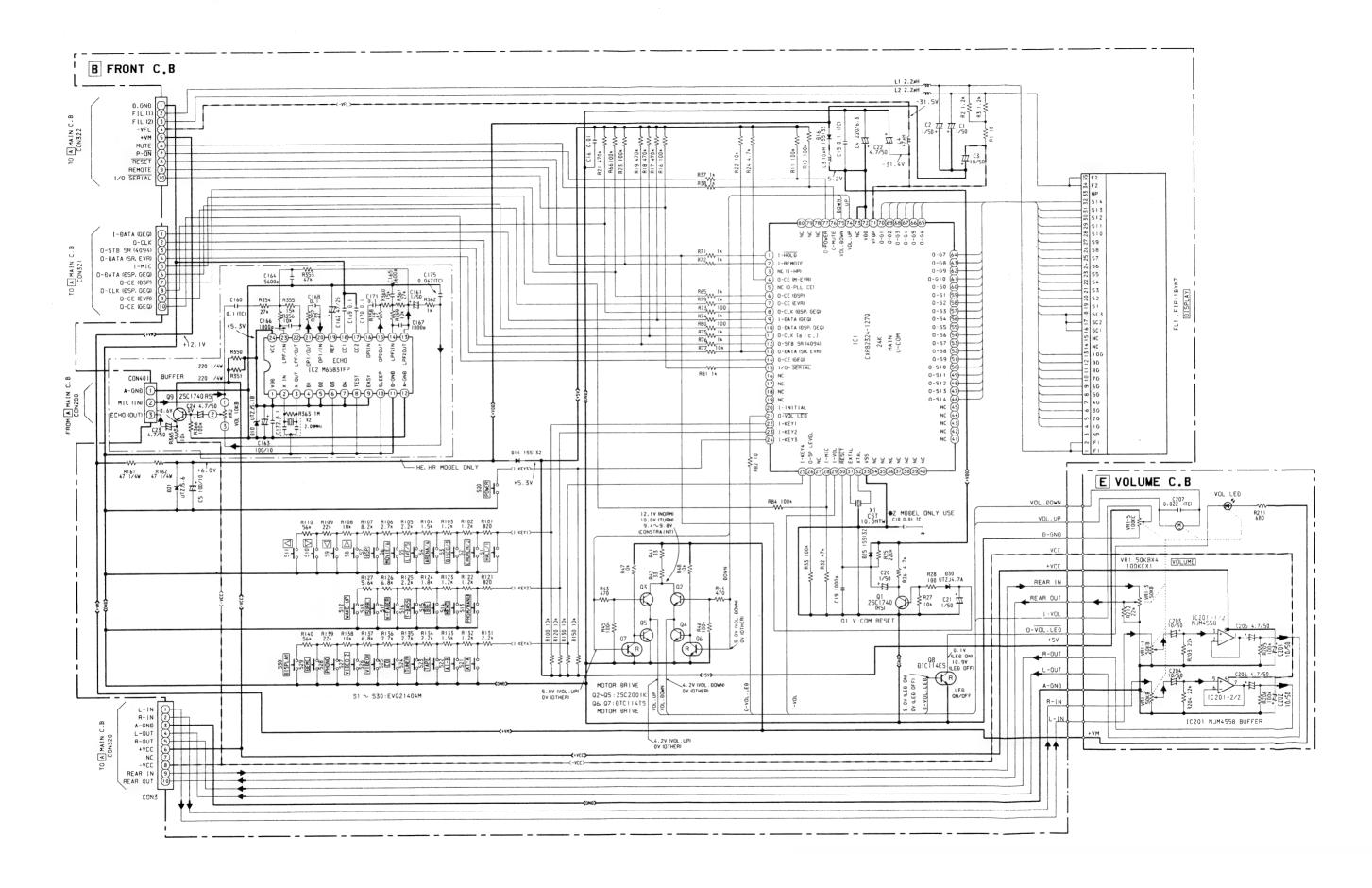




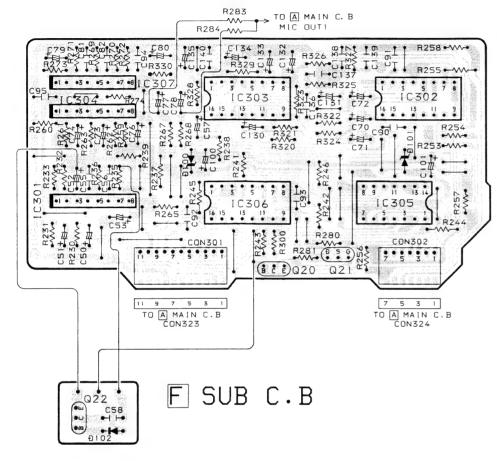




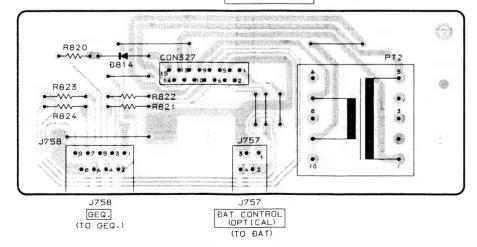




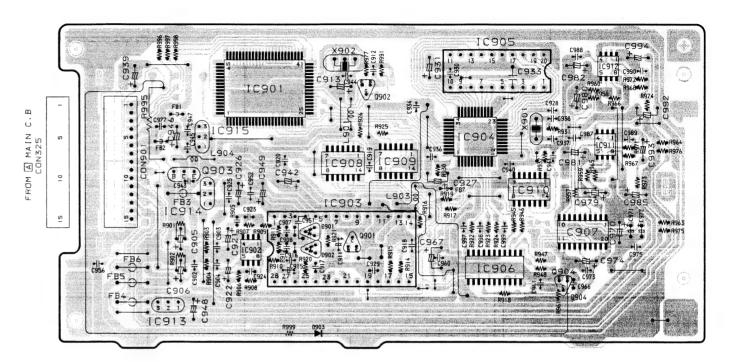
C DOLBY C.B



G FG-GEQ.C.B CON326

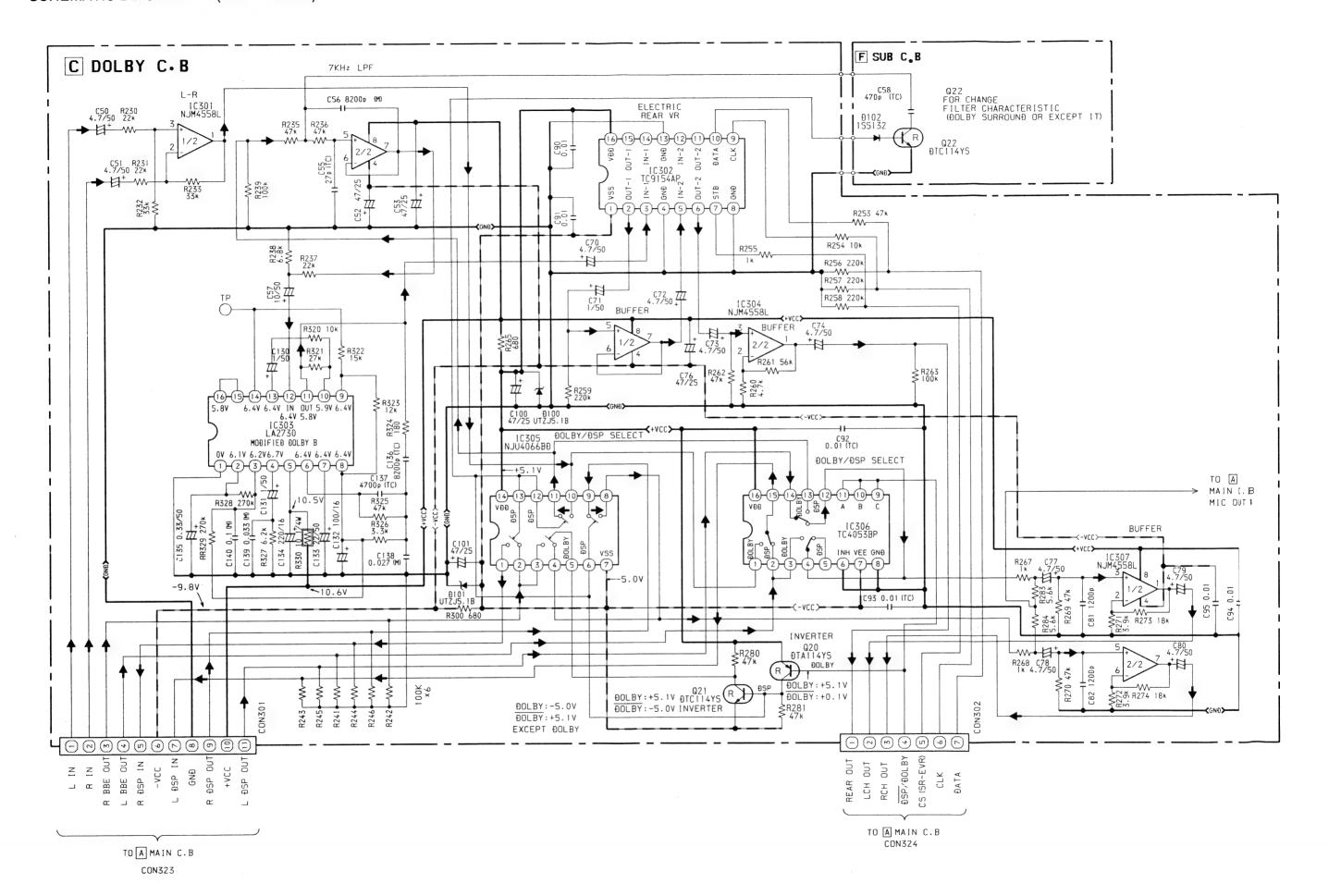


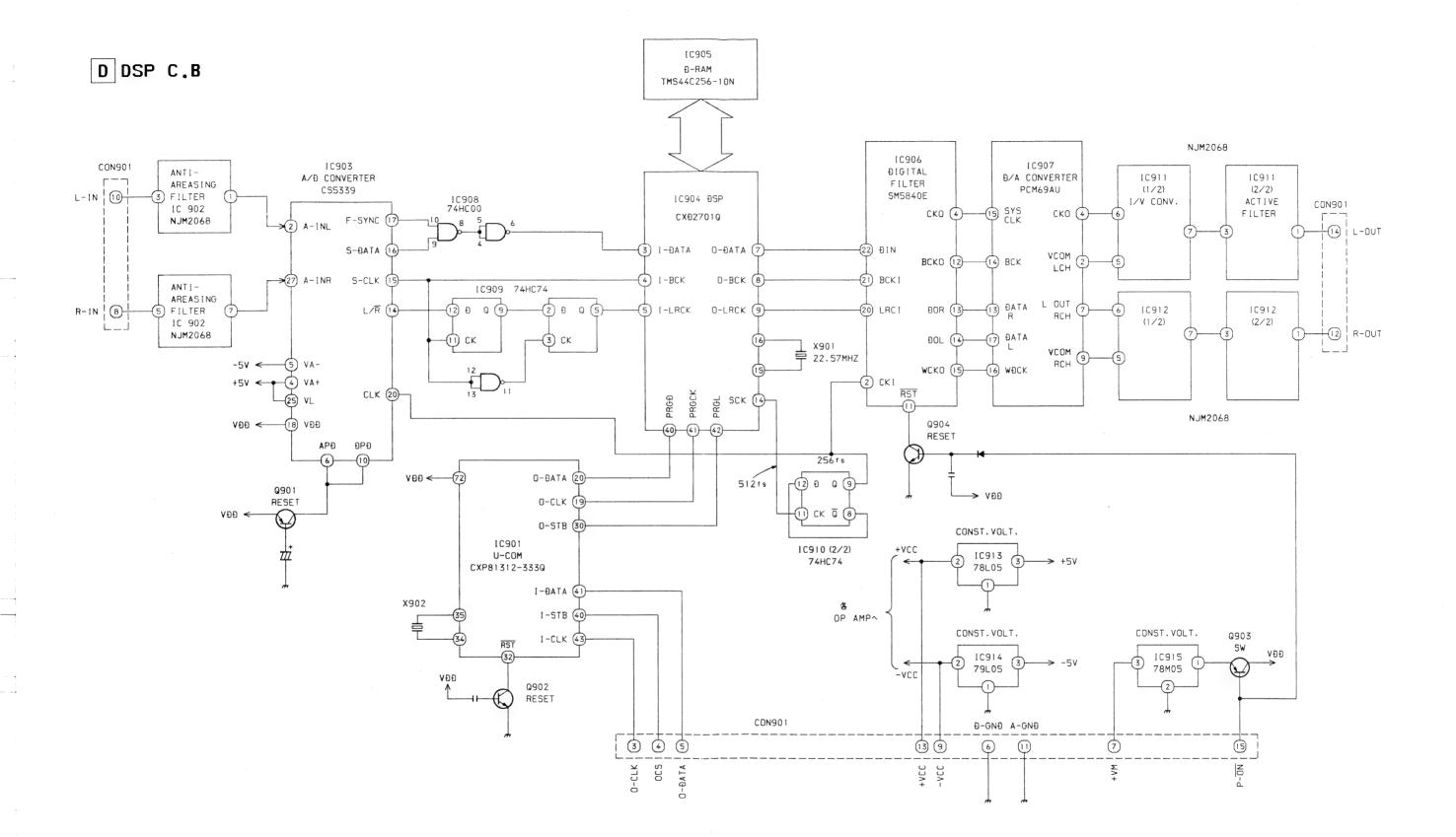
ĐĐSP C.B

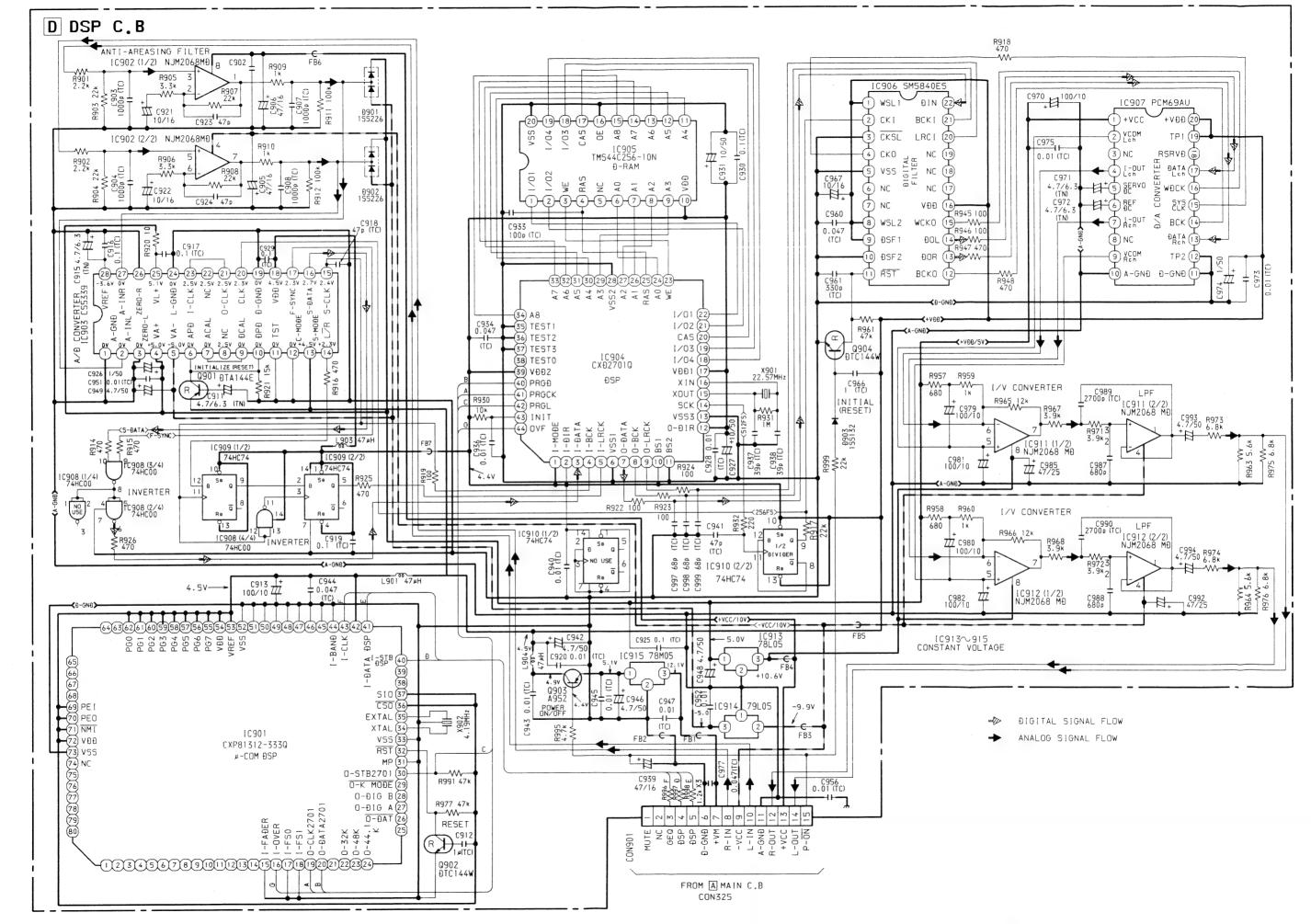


GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

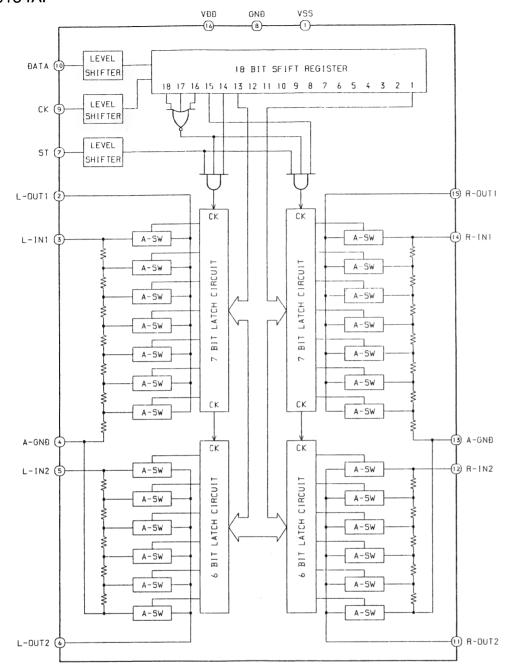
(プリント基板内のケミコンの極性表示は O表示です。)



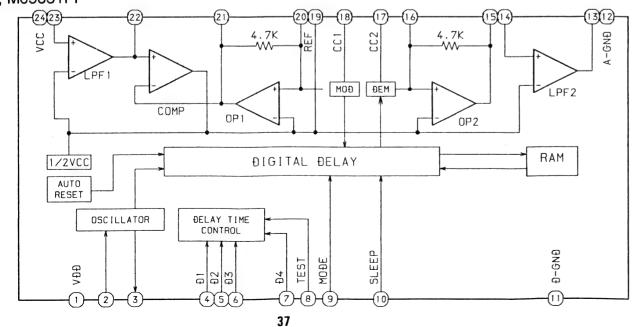


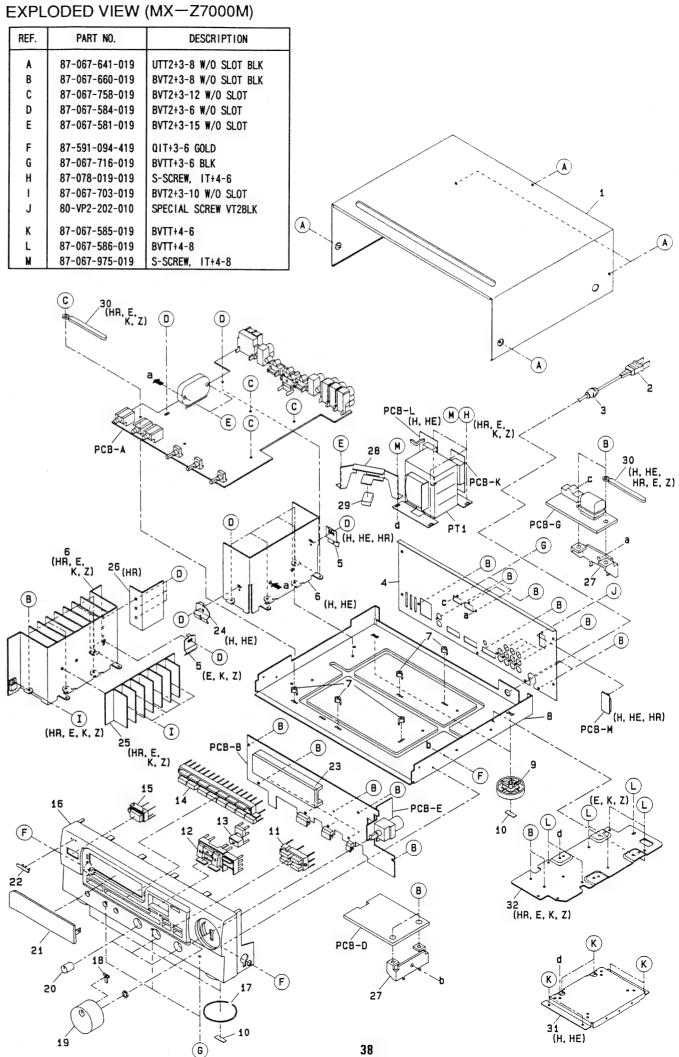


IC BLOCK DIAGRAM-2 (MX-Z7000M) IC, TC9154AP



IC. M65831FP





MECHANICAL PARTS LIST (MX - Z7000M)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO.	REF.	PART NO.	DESCRIPTION	COMMON	Q,TY
CHANGED TO	NO.			MODEL	
	1	★82-VP2-011-019	CAB, STEEL (H, HE)		1
	1	★82-VP2-023-019	CAB, STEEL HR (HR)		1
	1	★82-VP1-016-018	CAB, STEEL G (E, K, Z)	*	1
	2	★87-034-749-019	AC CORD, H W/PLUG (H)		1
	2	★ 87-050-034-019	AC CORD ASSY, E (HE, HR)		1
	2	★ 87-050-016-018	AC CORD ASSY, E (E, Z)		1
	2	★87-050-029-018	AC CORD ASSY, K 3P (K)		1
	3	★87-085-184-010	BUSHING, AC CORD D (H)		1
	3	★87-085-185-010	BUSHING, AC CORD E (EXCEPT H)		1
	4	★82-VP1-006-119	PANEL, REAR HJBN (H)	*	1
	4	*82-VP1-015-119	PANEL, REAR HEJBN (HE)	*	1
	4	*82-VP1-021-019	PANEL, REAR HRJBN (HR)	*	1
	4	★82-VP1-008-019	PANEL, REAR EBNE (E)	*	1
	4	★82-VP1-007-019	PANEL, REAR KBNE (K)	*	1
	4	★82-VP1-009-019	PANEL, REAR ZBNE (Z)	*	1
	5		HLDR, IC		1
	6		HT - SINK, ASSY		1
	7	·	HLDR, PCB 6.0		5
	8		CHAS, MAIN		1
	9	★81-VX1-012-019	FOOT, REAR		2
	10	★82-VW2-211-019	FELT, 20 - 7.5 - 2		4
	11	★82-VP2-006-019	KEY, BBE		1
	12	★82-VP1-013-019	KEY, CRSR	*	1
	13	*82-VP2-005-019	KEY, CRSR DOWN		1
	14	★ 82-VP1-012-019	KEY, FUN	*	1
	15	*82-VP2-002-019	KEY, POWER		1
	16	★82-VP1-011-019	CAB, FR LH (H)	*	1
	16	*82-VP1-001-019	CAB, FR H (HE, HR)	*	1
	16	★82-VP1-017-019	CAB, FR EX (E, K, Z)	*	1
	17	★ 81-VW1-015-010	RING, FOOT		2
	18	*82-MA2-026-019	IND, VOL		1
	19	★82-MA2-023-019	KNOB, VOL		1
	20	★81-VP1-005-019	KNOB, BBE		3
	21	★82-VP2-007-019	WINDOW, AMP		1
	22	★81-DS1-011-019	BADGE, AIWA N		1
	23	★82-MA2-203-019	GUIDE, FL 2		1
	24		HLDR, IC 2 (H, HE)		1
	25		HT - SINK SUB (HR, E, K, Z)		1
	26		HT - SINK, FIN L (HR)		1
	27		HLDR, PCB GEQ		2
	28		HLDR, PCB DSP		1
	29	★84-711-306-019	G - CUSHION 10 - 5 - 5		1
	30		WIRE BINDER		1 (H, HE, K)
					2 (HR, E, Z)
	31		HLDR, PT (H, HE)		1
	32		PLATE, PT G (HR, E, K, Z)		1

FX-WZ7000

CAUTIONS WHEN SERVICING (FX - WZ7000)

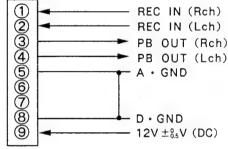
Model FX-WZ7000 does not have a power supply circuit. Power is supplied to it through a 9-pin flat cable and the signal inputs/outputs are also perfomed through this cable.

When servicing the FX-WZ7000 connect it to the MX-Z7000M so power is supplied to the FX-WZ7000. If the MX - Z7000M is not available, follow the procedure below.

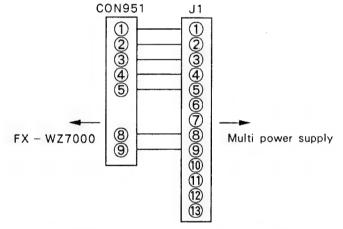
[When servicing the unassembled FX - WZ7000]

(1) Supply the following voltages to each terminal from an external power supply.



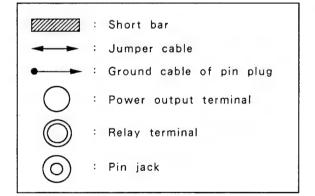


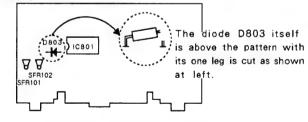
- 2 Connection diagram when using multi power supply.
 - * Connect a multi conversion harness for the D5 type to J1.



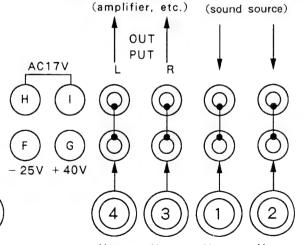
Connect a multi-conversion harness

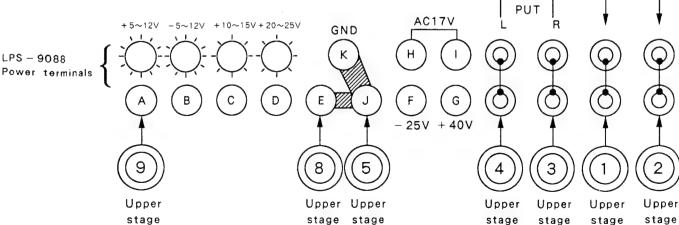
· After connecting the multi-conversion harness, connect the leg of the diode D803 on the pattern of the main C.B and then turn the multi-power supply on.





External equipment External equipment





ELECTRICAL MAIN PARTS LIST (FX - WZ7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

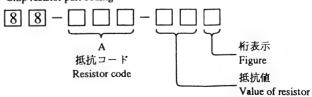
REF. NO	PART NO.	カンリ DESCRIPTION NO.	REF. NO	PART NO.	カンリ DESCRIPTION NO.
	87-001-334-010 87-001-908-019 87-002-861-010 82-VW2-631-010	IC, LB9051A IC, CXA1332S IC, CXP2201 AS IC, LC66406-4B19	C212 C213 C214 C215 C251	87-010-404-089 87-010-101-089 87-010-197-089 87-010-197-089 87-010-186-089	CAP, E 220-16 SME C-CAP, S 0.01-25 B C-CAP, S 0.01-25 B C-CAP, S 4700P-50 B
	87-017-022-089 87-001-607-089 87-017-023-089 87-001-224-089 87-020-730-089	1C, NJU4052BM 1C, NJU4066BM	C252 C253 C254 C255 C256	87-010-149-089 87-010-182-089 87-010-596-089 87-012-154-089 87-010-374-089	C-CAP, S 2200P-50 B C-CAP, S 0.047-16 RK C-CAP, S 150P-50 CH
TRANSISTOF		•	C257 C258 C259 C301 C302	87-010-401-089 87-010-149-089 87-010-178-089 87-010-321-089 87-010-321-089	C-CAP, S 5P-50 CH C-CAP, S 1000P-50 B C-CAP, S 82P-50 CH
	89-113-625-089 89-327-125-089 89-333-266-089 87-026-580-089	C-TR, 2SA1362GR (TAPG) C-TR, 2SC2712GR C-TR, 2SC3326B C-TR, DTA123JK	C303 C304 C305 C306	87-010-183-089 87-010-183-089 87-010-404-089 87-010-404-089	C-CAP, S 2700P-50 B CAP, E 4. 7-50 SME CAP, E 4. 7-50 SME
	87-026-223-089 87-026-210-089 87-026-227-089 87-026-463-080 89-112-965-089	C-TR, DTC143TK C-TR, DTC144EK T147 C-TR, DTA114EK TR, 2SA933S (RS) TR, 2SA1296GR	C323 C324 C401 C402 C403	87-012-157-089 87-012-157-089 87-012-156-089 87-012-156-089 87-014-071-089	C-CAP, S 330P-50 CH C-CAP, S 220P CH C-CAP, S 220P CH CAP, PP 3900P-100 J
	89-109-521-089 89-318-155-089 89-320-011-089 89-413-023-089	TR, 2SC1815GR TR, 2SC2001K	C405 C409 C451 C453 C454	87-010-221-089 87-010-402-089 87-010-178-089 87-010-322-089 87-010-322-089	CAP, E 2. 2-50 SME C-CAP, S 1000P-50 B C-CAP, S 100P-50 CH C-CAP, S 100P-50 CH
DIODE	87-017-024-089 87-020-331-089 87-020-330-089 87-020-584-089	C-D10DE, DA204K C-D10DE, DAN202K C-D10DE, DAP202K C-ZENER, 02CZ5. 6Y	C501 C502 C503 C504 C505 C506	87-010-175-089 87-010-175-089 87-010-182-089 87-010-182-089 87-010-404-089 87-010-404-089	C-CAP, S 560P-50 SL C-CAP, S 2200P-50 B C-CAP, S 2200P-50 B CAP, E 4. 7-50 SME
	87-020-123-089 87-001-559-059 87-002-564-089 87-020-109-019 87-027-329-089 87-017-069-059	DIODE, 1SS131, RA DIODE, 1SS133 RA LED, SLF-201C (YJ) ZENER, HZ22-L3	C507 C508 C509 C510 C511	87-010-182-089 87-010-182-089 87-010-182-089 87-010-182-089 87-010-825-089	C-CAP, S 2200P-50 B C-CAP, S 2200P-50 B C-CAP, S 2200P-50 B C-CAP, S 2200P-50 B
	87-017-091-089 87-001-290-059 87-001-731-059	ZENER, HZS5C1 ZENER, HZS6B1L RA	C512 C513 C514 C515 C516	87-010-825-089 87-010-546-089 87-010-546-089 87-010-404-089 87-010-404-089	O CAP, E 0. 33-50 SME O CAP, E 0. 33-50 SME O CAP, E 4. 7-50 SME
C101 C102 C103 C104	87-012-158-089 87-012-158-089 87-010-318-089 87-010-318-089	0 C-CAP, S 390P-50 CH 0 C-CAP, S 47P-50 CH 0 C-CAP, S 47P-50 CH	C517 C518 C519 C520 C521	87-010-371-089 87-010-101-089 87-012-360-089 87-012-360-089 87-010-179-089	O CAP, E 220-16 SME O C-CAP, S 1-10FZ O C-CAP, S 1-10FZ
C105 C106 C109 C110 C111	87-010-426-089 87-010-426-089 87-012-154-089 87-012-154-089 87-010-404-089	O C-CAP, S 0. 012-25 B O C-CAP, S 150P-50 CH O C-CAP, S 150P-50 CH O CAP, E 4. 7-50 SME	C522 C601 C602 C603 C604	87-010-179-08 87-010-404-08 87-010-237-08 87-010-101-08 87-010-237-08	9 CAP, E 4. 7-50 SME 9 CAP, E 1000-16 9 CAP, E 220-16 SME
C112 C113 C114 C115 C116	87-010-404-089 87-010-404-089 87-010-404-089 87-010-101-089 87-010-197-089	9 CAP, E 4. 7-50 SME 9 CAP, E 4. 7-50 SME 9 CAP, E 220-16 SME 9 C-CAP, S 0. 01-25 B	C605 C606 C607 C608 C609	87-010-198-08 87-010-546-08 87-010-371-08 87-010-198-08 87-015-822-08	9 CAP, E 0. 33-50 SME 9 CAP, E 470-6. 3 9 C-CAP, S 0. 022-25 B
C117 C201 C202 C203 C204	87-010-197-089 87-012-157-089 87-012-157-089 87-010-318-089 87-010-318-089	9 C-CAP, S 0.01-25 B 9 C-CAP, S 330P-50 CH 9 C-CAP, S 330P-50 CH 9 C-CAP, S 47P-50 CH	C751 C752 C753 C754 C755	87-010-546-08 87-010-546-08 87-010-405-08 87-010-405-08 87-010-263-08	9 CAP, E 0. 33-50 SME 9 CAP, E 10-50 SME 9 CAP, E 10-50 SME
C204 C205 C206 C207 C208	87-010-426-08 87-010-426-08 87-012-156-08 87-012-156-08	9	C756 C801 C951 C952 CF801	87-010-260-08 87-010-404-08 87-012-140-08 87-010-186-08 89-MX1-704-08	9 CAP, E 47-25 SME 9 CAP, E 4. 7-50 SME 9 C-CAP, S 470P-50 CH 9 C-CAP, S 4700P-50 B

REF. NO	PART NO.	カンリ N O.	DESCRIPTION	RE	F. NO	PART NO.	カンリ NO.		DESCRIPTION
CON801 CON951 L301 L302 L303	82-VW2-624-019 82-VW2-623-019 87-005-525-089 87-005-525-089 87-003-131-089	F-CABLE 31 CORD, FG 91 COIL, 22MH- COIL, 22MH- COIL, 10MH	P-1. 5 - J - J	S9 S9 S9	904 909 909 911	87-036-259-08 87-036-215-08 87-036-259-08 87-036-215-08 87-036-259-08	9 9 9	SW, TACT SW, TACT SW, TACT	SKHVBB (Y) EVQ21404M (YJ) SKHVBB (Y) EVQ21404M (YJ) SKHVBB (Y)
L304 L305 L306 L401 L601	87-003-131-089 87-003-123-089 87-003-123-089 80-VW1-605-119 87-005-474-089	COIL, 10MH COIL, 2. 2M COIL, 2. 2M COIL, OSC I COIL, 12UH	H J H J BIAS 108K	\$9 \$9 \$9	912 912 913 913	87-036-215-08 87-036-259-08 87-036-215-08 87-036-259-08 87-036-215-08	9 9 9	SW, TACT SW, TACT SW, TACT	EV021404M(YJ) SKHVBB(Y) EV021404M(YJ) SKHVBB(Y) EV021404M(YJ)
L602 R408 SFR101 SFR102 SFR201	87-005-239-019 87-025-471-089 87-024-349-089 87-024-349-089 87-024-349-089	COIL, 100U RES NF 4. SFR, 1K DI SFR, 1K DI SFR, 1K DI	H 7-1/4WJ A6 H A6 H A6 H	S9 S9 S9 S9	914 915 915 916 916	87-036-259-08 87-036-215-08 87-036-259-08 87-036-215-08 87-036-259-08	9 9 9	SW, TACT SW, TACT SW, TACT	SKHVBB (Y) EVQ21404M(YJ) SKHVBB (Y) EVQ21404M(YJ) SKHVBB (Y)
SFR202 SFR301 SFR302 SFR401 SFR402	87-024-349-089 87-024-353-089 87-024-353-089 87-024-356-089 87-024-356-089	SFR, 1K DI. SFR, 10K D SFR, 10K D SFR, 47K D	A6 H IA6 H IA6 H IA6 H	S9 59 T9	917 917 901	87-036-215-08 87-036-259-08 82-VW1-623-01	9		EV021404M(YJ) SKHVBB(Y)
					K-1 C. I		_		
S905 S905 S906	87-036-215-089 87-036-259-089 87-036-215-089	SW, TACT S SW, TACT E	VQ21404M(YJ)	SF SF	1 I n 701 FR1 FR2 OL1	87-045-348-01 87-009-236-01 87-024-170-08 87-024-171-08 82- ZM 1-618-01	0	MOT, SHW CONN, 8P SFR, 3. 3 SFR, 4. 7 SOL ASS	PH H K DIA 6V K DIA 6V
S906 S907	87-036-259-089 87-036-215-089		SKHVBB(Y) EVQ21404M(YJ)	SY	SW4 SW5	87-036-110-010		SW, PUSH	SPPB 62
\$907 \$908 \$908	87-036-259-089 87-036-215-089 87-036-259-089	SW, TACT E	VQ21404M(YJ)	SI	W 6	87-036-110-01 87-036-110-01			SPPB 62 SPPB 62
					K-2 C.		•	NOT CUM	01.70
C901 C904 C908	87-010-263-089 87-018-214-089 87-016-251-049	CAP, E 100 CAP, TC U CAP, E 220	-10 0.1-50 F -16 SMG	M P Si Si Si	2 1N702 FR1 FR2 OL2	87-045-348-01 87-009-752-01 87-024-170-08 87-024-171-08 82-ZM1-618-01	0 80 80	SFR, 3. 3	PPHHWHT KDIA6V KDIA6V
C910 C912	87-014-067-089 87-010-407-089	CAP, E 33-	00P-100 J 50 SME	SI	W1	87-036-110-01		SW, PUSH	SPPB 62 SPPB 62
C913 C914 CF901	87-018-214-089 87-018-214-089 89-MX1-704-089 82-VW1-621-010	CAP, TC U CAP, TC U CERA LOCK FL BJ125G	00P-100 J 50 SME 0.1-50 F 0.1-50 F (MU)3.9MHZ	Si Si Si	W2 W3 W4 W5	87-036-110-01 87-036-110-01 87-036-110-01 87-036-110-01	0	SW, PUSH SW, PUSH	SPPB 62 SPPB 62 SPPB 62
FL901 FR901	87-025-471-089	1 6 001200			W 6	87-036-110-01	0	SW, PUSH	SPPB 62
FR902 L901 L902 S901	87-025-471-089 87-003-051-089 87-003-102-089 87-036-215-089 87-036-259-089	COIL, 470U COIL, 10UH SW, TACT E	H VQ21404M(YJ)		AY-1 C				
S901			VQ21404M(YJ)	,,,,,,	2 0				
S902 S902	87-036-215-089 87-036-259-089	SW, TACT S	KHVBB (Y)	MIS	CELLAN	EOUS			
S903 S903 S904	87-036-215-089 87-036-259-089 87-036-215-089	SW, TACT S	VQ21404M(YJ) KHVBB(Y) VQ21404M(YJ)		H PH	87-046-355-0 87-046-356-0			HADKH25298 (D1) H HADKH5581B (D2)

○チップ抵抗部品コード/CHIP RESISTOR PART CODE

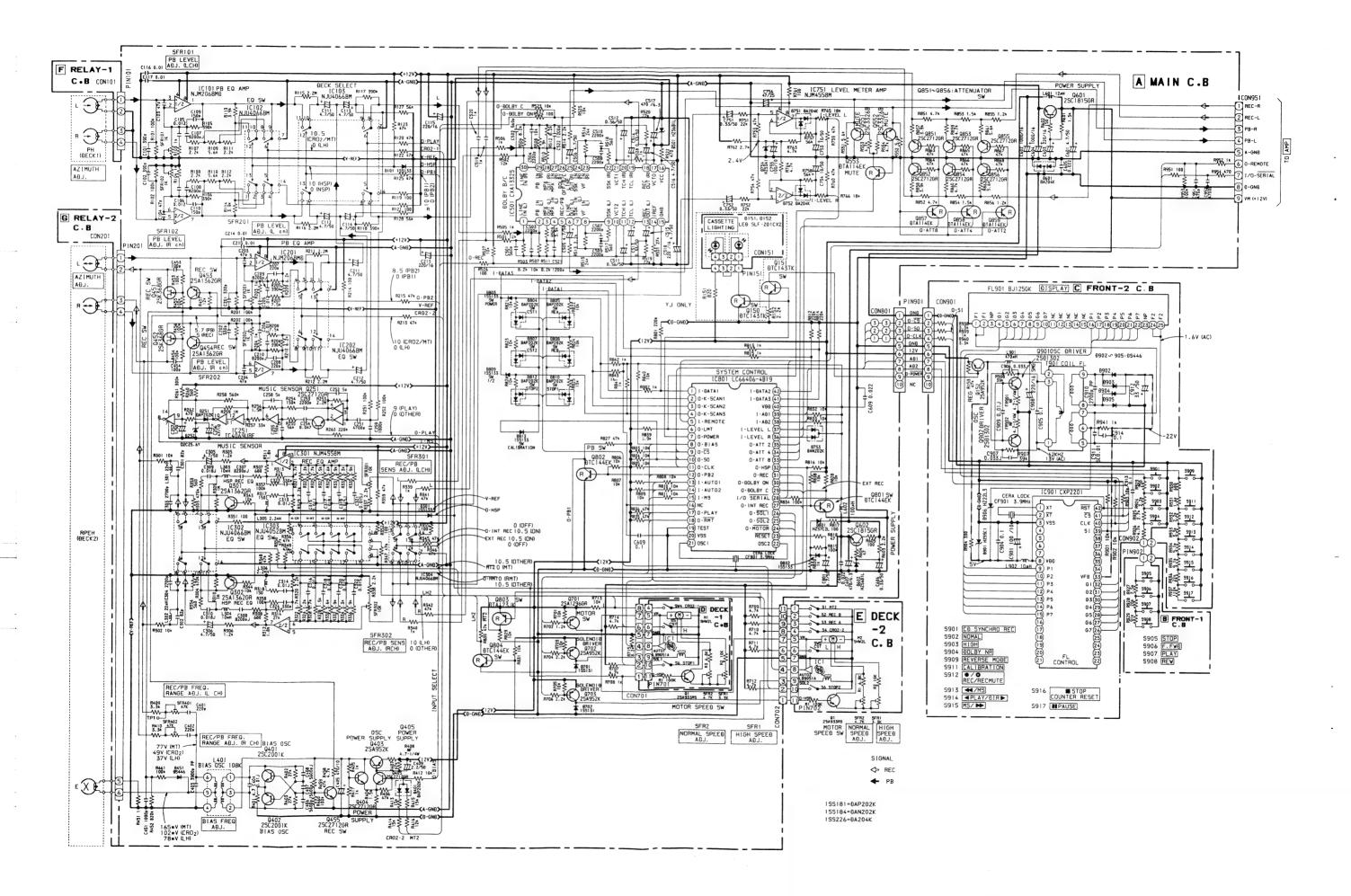
チップ抵抗部品コードの成り立ち

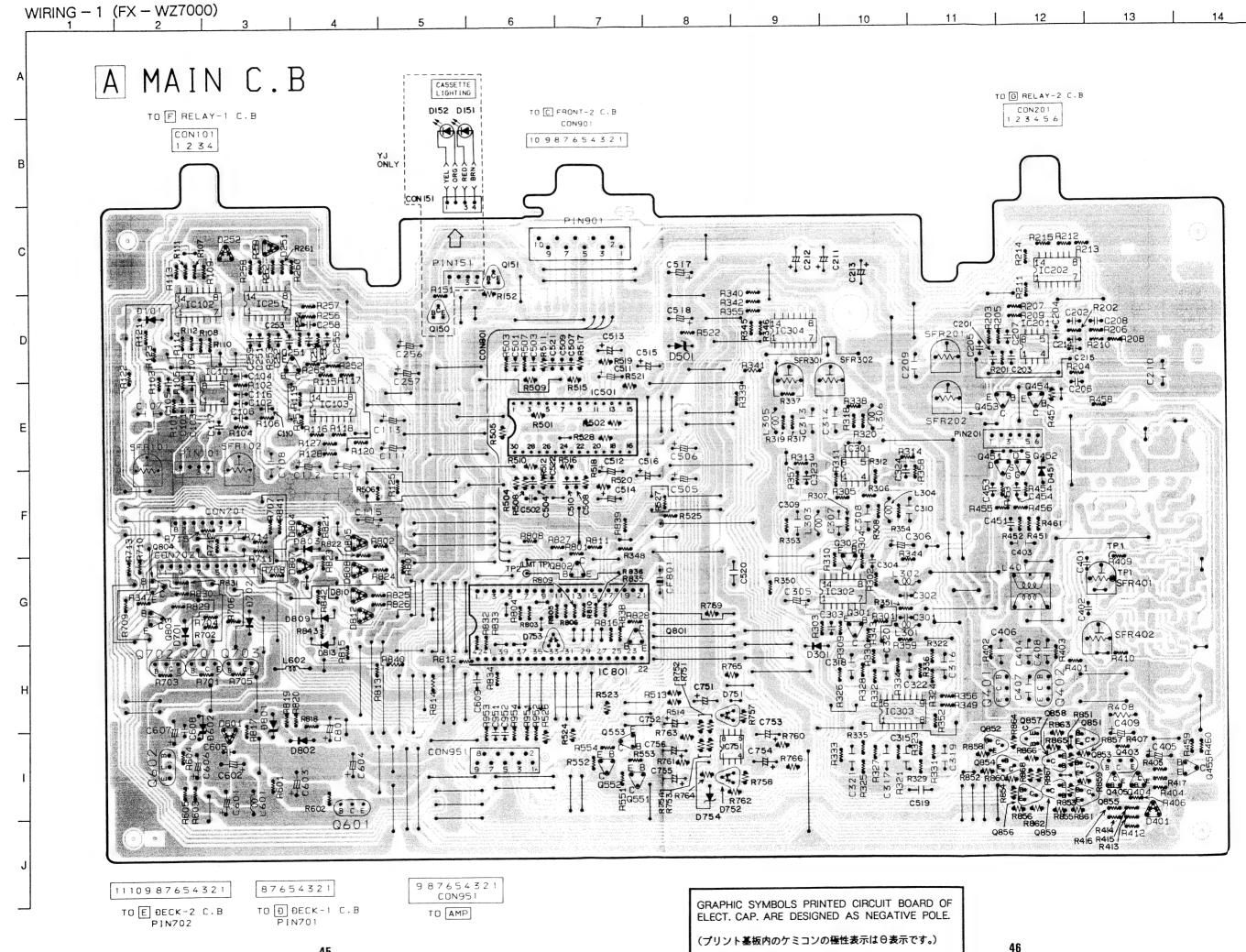
Chip resistor part coding

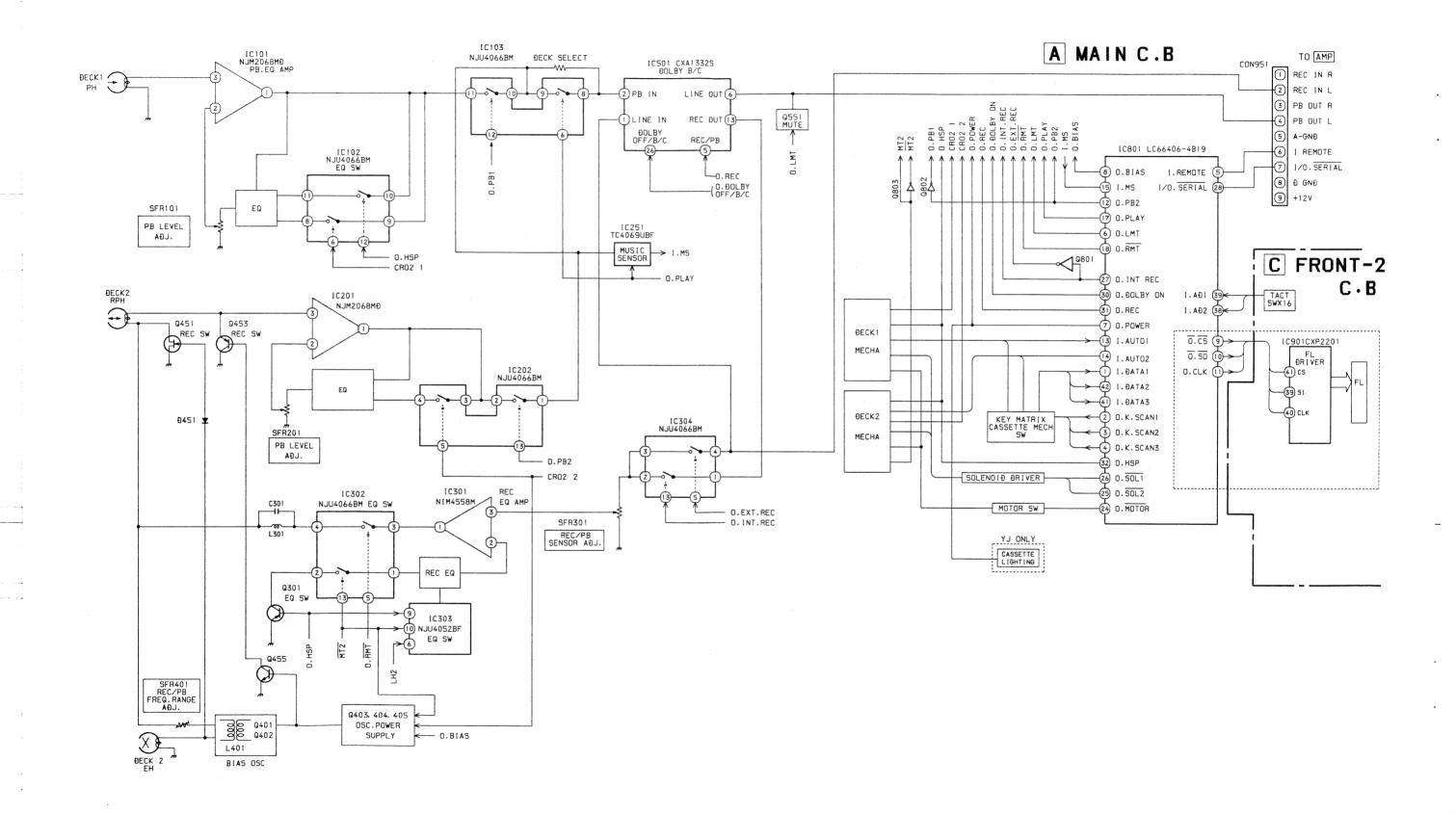


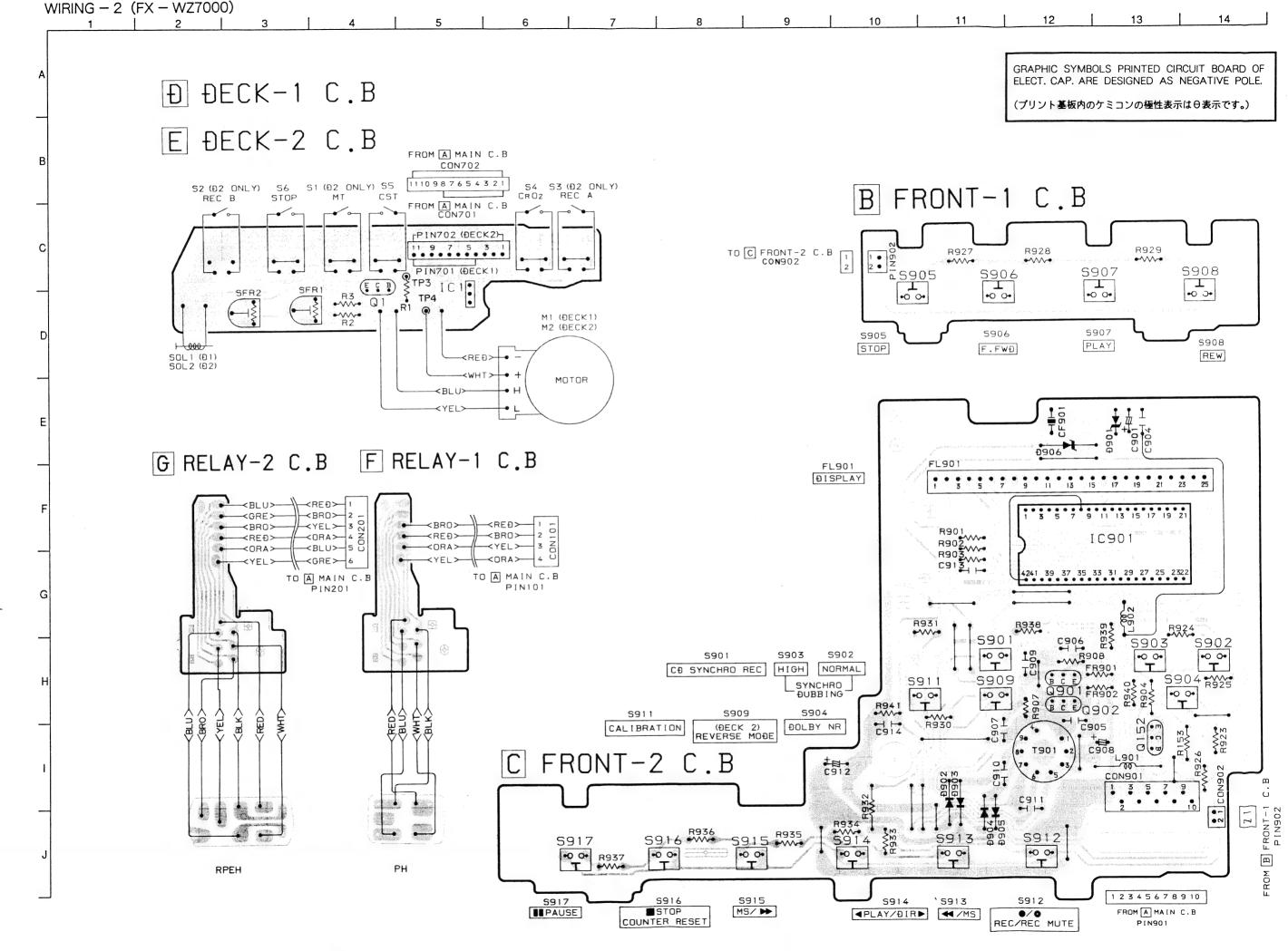
チップ抵抗 Chip resistor

Chip icasioi								
Wattage	Туре	Tolerance	Symbol	Dimensions/寸法 (mm)			Resistor code: A	
容量	種類	許容誤差	記号	Form/外形	L	W	t	抵抗コード:A
1/32W	1608	±5%	CJ	├ ── L──┤↓	1.6	0.8	0.35	1 08
1/10W	2125	±5%	CJ	t	2	1.25	1.45	1 18
1/8W	3216	±5%	CI	W	3.2	1.6	0.5 ~0.7	1 28





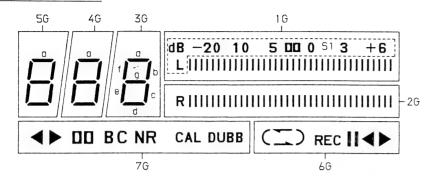




FL / IC BLOCK DIAGRAM (FX-WZ7000)

FL, BJ125GK

GRIÐ ASSIGNMENT



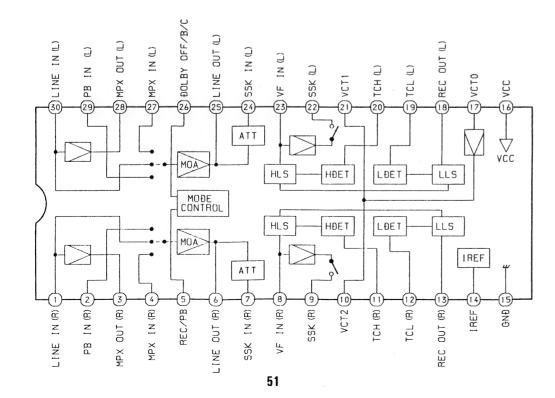


(1.G. 2G)

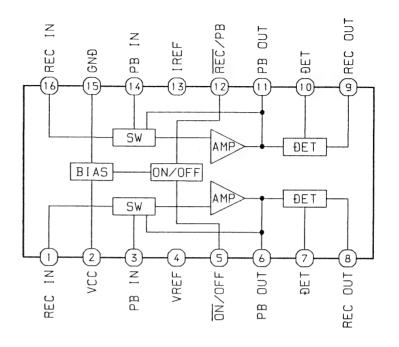
ANOĐE CONNECTION

	7G	- 6G	5G	4 G	3G	2G	1 G
P1	DUBB	>	а	а	а	В1	В1
P2	CAL	4	b	b	b	В2	В2
Р3	С	11	0	С	С	В3	В3
Р4	В	REC	d	d	d	В4	В4
P5	OO NR)	Э	е	е	B5	B5
Р6	>	=	f	f	f	В6	В6
P7	4	(g	g	g	R	S1

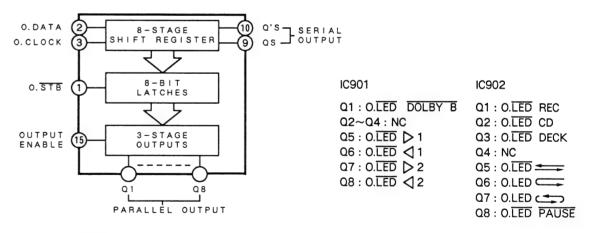
IC, CXA1332S



IC, HA12134A



IC, BU4094B

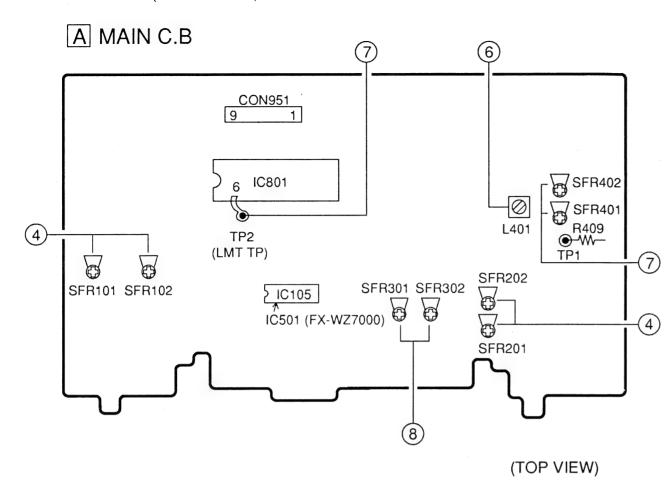


TRUTH TABLE

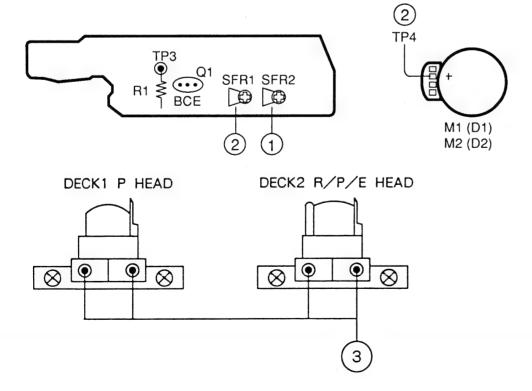
CLOCK	OUTPUT	STROBE	DATA	PARALLEL	OUTPUTS	SERIAL OUTPUTS		
CLOCK	ENABLE	STROBE	DATA	Q1	Qn	QS	Q'S	
	L	×	×	Z	Z	Q7.	NO CHG.	
7	L	×	×	Z	Z	NO CHG.	QS	
<u>-</u>	Н	L	×	NO CHG.	NO CHG.	Q 7	NO CHG.	
<u>-</u>	Н	Н	L	L	Qn – 1	Q 7	NO CHG.	
<u>_</u>	Н	Н	Н	Н	Qn – 1	Q7	NO CHG.	
¥	Н	×	×	NO CHG.	NO CHG.	NO CHG.	QS	

 $Z = HIGH IMPEDANCE \times = DON'T CARE$

ADJUSTMENT (FX-WZ7000)



D DECK-1 C.B E DECK-2 C.B



1. Normal Speed Adjustment (DECK1, DECK2)

Settings: · Test tape: TTA-100 (TTA-111S)

· Test Point : PB-OUT (CON951)

· Adjustment Location: SFR2 (DECK1)

SFR2 (DECK2)

Method: Play back the test tape, adjust for 3000 \pm 711z.

2. High Speed Adjustment (DECK1, DECK2)

Settings: · Test tape: TTA-100 (TTA-111S)

· Test Point : PB-OUT (CON951)

· Adjustment Location: SFR1 (DECK1)

SFR1 (DECK2)

Method: After normal speed adjustment, play back the test tape, and make the high speed condition to be shorted between TP3 and TP4. Adjust for $6000 \pm 10 \text{Hz}$.

3. Head Azimuth Adjustment (DECK1, DECK2)

Settings: • Test tape: TTA-310 (TTA-317E, SCC-1429)

· Test Point: PB-OUT (CON951)

· Adjustment Location: Head azimuth

adjustment screw

Method: Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum in each FWD PLAY and REV PLAY mode.

4. PB Level Adjustment (DECK1, DECK2)

Settings: Test tape: TTA-200 (TTA-161, TCC-130)

· Test Point : PB-OUT (CON951)

· Adjustment Location: SFR101 (DECK1, Lch)

SFR102 (DECK1, Rch)

SFR201 (DECK2, Lch)

SFR202 (DECK2, Rch)

Method: Play back the test tape and adjust so that the output be-

comes $280 \text{mV} \pm 15 \text{mV}$.

5. FWD/REV Playback Output Difference Check (DECK1, DECK2)

Settings: Test tape: TTA-200 (TTA-161, TCC-130)

· Test Point : PB-OUT (CON951)

Method: Play back the test tape and make sure that the output differ-

ence between the FWD and REV modes is $0dB \pm 0.7dB$.

6. Bias Frequency Adjustment (DECK2)

Settings: Test tape: TTA-601 (TTA-600, TTA-119K)

· Test Point : TP1

· Adjustment Location: L401

Method: Set DECK2 to the record mode and adjust L401 so that the

frequency at TP1 is 107.5kHz ± 1.5kHz.

7. REC/PB Frequency Response Adjustment (DECK2)

Settings: Test tape: TTA-601 (TTA-600, TTA-119K)

• Test Point : PB-OUT (CON951)

· Adjustment Location: SFR401 (Lch)

SFR402 (Rch)

Method: Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT

is 25mV.

Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is $0dB \pm 0.3dB$ for 1kHz signal. After adjustment, remove the grounding

lead wire.

. REC/PB Sensitivity Adjustment (DECK2)

Settings: Test tape: TTA-601 (TTA-600, TTA-119K)

· Test Point : PB-OUT (CON951)

· Adjustment Location: SFR301(Lch)

SFR302 (Rch)

Method: Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT

Record and play back the 1kHz signal and adjust so that the output level of is $25 \text{mV} \pm 0.3 \text{dB}$. After adjustment, remove the grounding lead wire.

PRACTICAL SERVICE FIGURE (FX – WZ7000)

PB output level: $280 \text{mV} \pm 34 \text{mV} \text{ TTA-200}$

(TTA-161, TCC-130)

REC/PB output level: 250mV ± 1dB (PB-OUT, 1kHz) Distortion (REC/PB): Less than 2.0% (NORM., CrO₂)

Erasing ratio: More than 60dB

Crosstalk: More than 60dB

Channel separation: More than 35dB
Noise (REC/PB): Less than 2.0mV

(DOLBY OFF NORM.)
Less than 1.0mV.
(DOLBY B ON CrO₂, MT)

Less than 0.8mV

(DOLBY C ON CrO₂, MT)

Noise (PB): Less than 1.8mV

(DOLBY OFF NORM.) Less than 0.9mV

(DOLBY B ON CrO₂) Less than 0.8mV

(DOLBY C ON CrO₂)

Recording bias frequency: 108kHz

Tape speed: $3000 \text{Hz} \pm 1.5\%$

Wow & flutter (W.RMS): Less than 0.18% (DECK1, 2)
Take-up torque: 30~55g-cm (DECK1, 2)
F.F & REW torque: 75~160g-cm (DECK1, 2)
Back tension: 2~6g-cm (DECK1, 2)
Test tape: NORMAL: TTA-601

(TTA-600, TTA-119K)

CrO₂: TTA-610 (TTA-**1** 19II)

IC, LC66406-4B19

Pin No.	Pin Name	I/O	Description -						
	1		KEY D	ATA input					
			When K · SCAN1	When K · SCAN2	When K · SCAN3	When K · SCAN4			
			is "II"	is "II"	is "H"	is "H"			
1	DATA1	I	DECK2	DECK2	DECK1	SW CD HIGH SPEED			
1	DATAI	1	REC A SW input	REC B SW input	STOP SW input	(ON/OFF)			
40	DATAS	I	DECK1	DECK2	DECK2	SW CAL			
42	DATA2	1	CST SW input	CST SW input	STOP SW input	(Calibration) ON/OFF			
41	DATA3	I	SW · POWER input	SW · DOLBYC	DECK1/2				
41	DATAS	1	3W TOWER Input	(ON/OFF)	SW input				
2	O·K·SCAN1	0				-			
3	O·K·SCAN2	0	SCAN output terminal	of DATA 1~3.					
4	O·K·SCAN3	0							
5	I · REMOTE	I	Serial data input termin	al of remote controller.					
6	O · LMT	0	Output terminal for rec	ord/playback monitor out	put signal muting. "H" at	muting.			
7	O · POWER	0	POWER ON/OFF cont	rol.					
8	O · BIAS	0	Bias oscillation output	terminal for DECK 2. "H	at recording/dubbing. "L	" at resetting.			
9	$O \cdot \overline{STB} (\overline{CS})$	0	Strobe signal for the sh	ift register (IC, BU4094).					
10	O · DATA (SO)		Social data for the shift	rogister DLL IC					
10	/ K·SCAN4	0	Serial data for the shift register PLL IC.						
11	O · CLK	0	Serial data clock signal for the shift register PLL IC.						
12	O · PB2	0	Playback output contro	Playback output control terminal for DECKS 1 and 2. "H" at playback with DECK 2.					
13	I · AUTO1	I	Reel pulse input termin	al for DECK 1.					
14	I · AUTO2	I	Reel pulse input termin	al for DECK 2.					
15	I · MS	I	MS signal input termin	al. Active "H".					
16	NC	-	Not used.						
17	O · PLAY	0	Cue/review mute outpu	t and MS sensitivity swite	ching output terminal. "H'	at playback.			
18	O · RMT	0	Muting output terminal	for recording input. "H"	at record mute, record star	rt, record clear and			
			record pause.						
19	TEST	-	MPU test terminal. Cor	nnected with Vss.					
20	VSS	_	Common terminal for N	MPU I/O and power suppl	y.				
21	OSC1	_	3.9MHz Oscillation ten	minal					
22	OSC2	-	5.5WITZ OSCIDATION TEN	mindl					
23	RESET	I	Reset input terminal. A	Active "L".					
24	O · MOTOR	0	Main motor control out	put terminal for decks 1 a	nd 2. "L" with both deck	s at STOP.			
25	O · SOL2	0	Solenoid drive output to	erminal for DECK 2. Act	ive "L".	***			
26	O · SOLI	0	Solenoid drive output to	erminal for DECK 1. Act	ive "L".				
27	O · INT REC	0	Recording input source	switching output termina	l for deck 2.				
			"H": Deck 1 at STOP, I	FF or REW (with DECK	NOR, DECK HI, CD NO	R, DECK2 REC).			
			"L": In other modes: Do	eck 2 at REC, etc. (with 0	CD HI, DECK2 PLAY/ST	TOP, DECK1 PLAY).			
28	I/O · SERIAL	I/O	Input/output terminal for	or serial data with CD, AN	MPLIFIER and TUNER.				
29	NC	_	Not used.						
30	O · DOLBY ON	0	DOLBY NR ON/OFF	switching output terminal	"H" at DOLBY NR ON	•			
31	O · REC	0	Dolby encoder/decoder	switching output termina	l. "H" at recording and "l	L" at dubbing.			
32	O · HSP	0	High-speed control out	put terminal for DECKS	and 2. "H" at HIGH SP	EED DUBBING.			

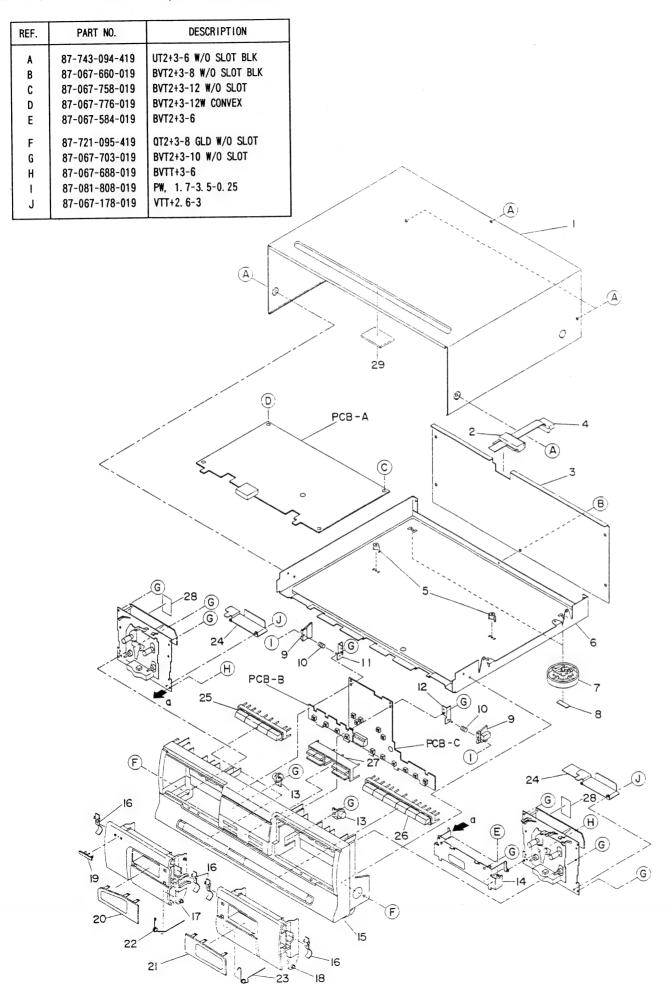
Pin No.	Pin Name	I/O	Description			
33						
34		_				
35	NC NC		Not used.			
36						
37						
38	I · AD2	I	V. Carting and I was a second			
39	I · AD1	I	Key function control input terminal.			
40	VDD	_	Power terminal (+5V).			

IC, CXP2201AS

Pin No.	Pin Name	I/O	Description
1	EXT	I	Ceramic connector for system clock oscillator use. When using an external clock, input to EXT,
2	XT	0	and Icave XT open.
3	Vss	-	Connect to Vss.
4			
5	NC		Not used.
7			
8	V_{DD}	-	Connect to V _{DD} .
9	P1		
5	5	0	Exclusive segment output (with built-in pull-down resistor).
15	P7		
16			
s	NC	-	Not used.
25			
26	G7		
5	5	0	Exclusive timing output (with built-in pull-down resistor).
32	G1		
33	V _{FDP}	_	Load power supply for FDP.
34			
5	NC	-	Not used.
38			
39	SI	1	Scrial data input.
40	CLK	I	Shift clock input.
41	CS	I	Chip select input.
42	RST	I/O	Reset (with built-in pull-up resistor and power-on reset circuit).

5

EXPLODED VIEW - 1 (FX - WZ7000)

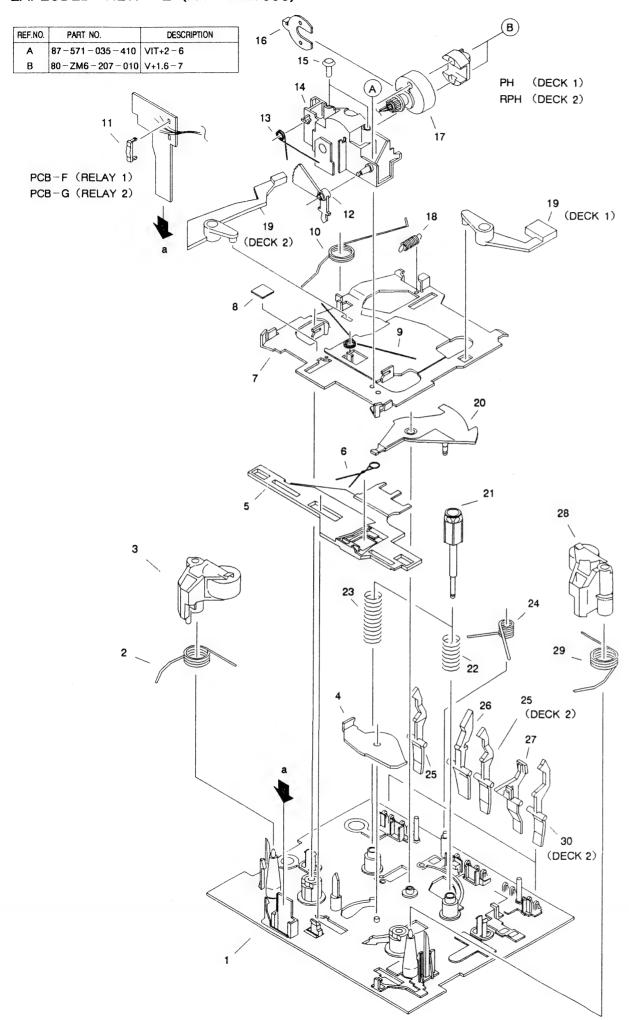


MECHANICAL PARTS LIST (FX - WZ7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1-1	★81-VW1-028-018	CAB, STEEL G (Y)	*	1
	1-1 1-2	★81-VW1-017-119 ★89-VT5-202-010	CAB, STEEL (YJ) BUSHING, CORD	*	1 1
	1-3	★82-VW1-011-119	PANEL, REAR YBNE (Y)	*	1
	1-3	★82-VW1-010-019	PANEL, REAR YJBN (YJ)	*	1
	1-4	★ 82-V₩2-623-019	CORD, FG 9P 750		1
	1-5		HLDR, PCB 6.0		2
	1-6		CHASSIS, AMP		1
	1-7	★81-VX1-012-019	FOOT, REAR		2 2
	1-8	★82-VW2-211-019	FELT 20 – 7.5 – 2		2
	1-9	★ 80-CD3-233-010	PLATE, LOCK		2
	1-10		SPR - C, LOCK PLATE 5V		2
	1-11	★82-V₩2-201-019	HLDR ASSY, LOCK 1		1
	1-12		HLDR ASSY, LOCK 2		1 2
	1-13	★ 87-063-143-010	OIL - DMPR 75		2
	1-14	★ 82-V₩2-207-019	HLDR, BOX		1
	1-15	★ 09-047-743-010	CAB, FR ASSY	*	1
		★ 81-MX4-223-019	SPR – P, CASS		4
	1-17		BOX, CASS 1 EX	*	1
	1-18	★82-VW2-020-219	BOX, CASS 2 EX		1
	1-19	★81-DS1-011-019	BADGE, AIWA N		1
	1-20	★ 82-V₩2-010-019	WINDOW, CASS 1		1
	1-21		WINDOW, CASS 2		1
	1-22		SPR – T, EJECT 1		1
	1-23	★82-VW2-209-019	SPR – T, EJECT 2		1
	1-24	*82-VW2-618-119	PLATE, SHLD MECHA		2
	1-25	*82-VW1-005-019	KEY, PLAY	*	1
	1-26	★82-VW1-006-019	KEY, REC	*	1
	1-27		KEY, DUBB	*	1
	1-28	★ 80-MK2-206-010	DMPR, 27 – 44.5 – 5.3		2
	1-29	★ 82-226-274-010	DMPR, 80 - 60 - 3 (Y)		1

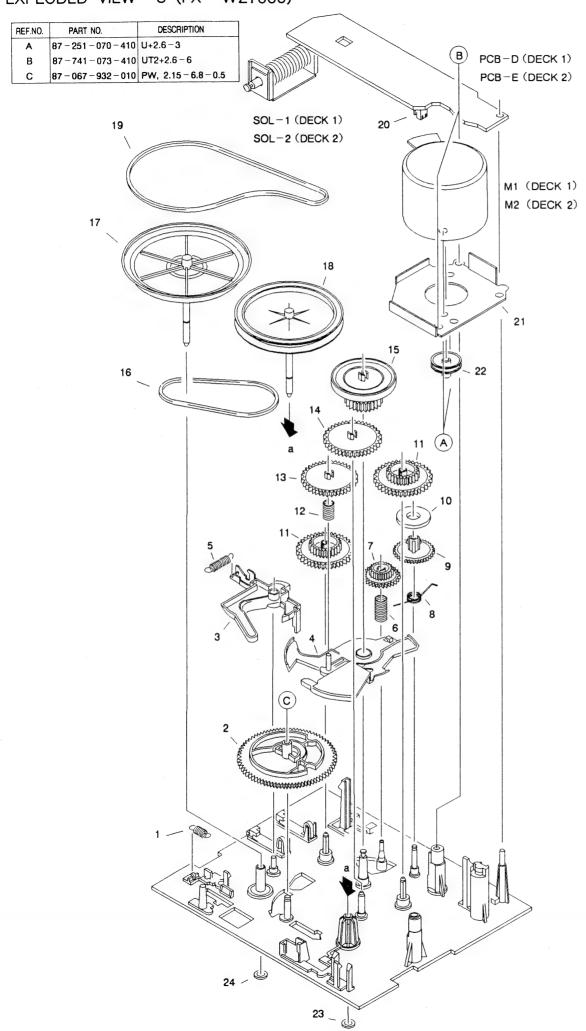
EXPLODED VIEW - 2 (FX - WZ7000)



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	2-1 2-2 2-3 2-4 2-5	★82-ZM1-201-010 ★82-ZM1-258-010 ★82-ZM1-248-110 ★82-ZM1-295-010 ★82-ZM1-266-010	CHAS ASSY, MECH SPR - T, PINCH L LVR ASSY, PINCH L PLATE ASSY, LINK LVR, DIR	* * * * *	1 1 1 1
	2-6 2-7 2-8 2-9 2-10	★82-ZM1-214-010 ★82-ZM1-206-010 ★87-078-014-010 ★82-ZM1-269-010 ★82-ZM1-219-010	SPR - T, DIR CHAS, HEAD SH, 5 - 5 - 0.05 SPR - T, BRG SPR - T, LINK	* * *	1 1 1 1
	2-13 2-14	 ★82-ZM1-210-010 ★82-ZM1-213-010 ★82-ZM1-207-010 ★82-ZM1-283-010	HLDR WIRE 2 GEAR, H T SPR – T, HEAD GUIDE, TAPE S – SCREW, AZIMUTH	* * *	1 1 1 1 2
	2-17 2-18 2-19	★82-ZM1-209-010 ★82-ZM1-208-010 ★82-ZM1-218-010 ★82-ZM1-264-010 ★82-ZM1-263-010	PLATE, HEAD HLDR, HEAD SPR – E, HB LVR, EJECT R (DECK 1) LVR, EJECT L (DECK 2)	* * * *	1 1 1 1
	2-21 2-22 2-23	★82-ZM1-222-010 ★82-ZM1-217-010 ★82-ZM1-244-010 ★82-ZM1-285-010 ★82-ZM1-257-010	LVR, PLAY REEL TABLE SPR – C, BT SPR – C, BT L SPR – T, CAS	* * * *	1 2 1 1 1
	2-26	*82-ZM1-241-010 *82-ZM1-242-010 *82-ZM1-243-010 *82-ZM1-253-110	LVR, MC (DECK 1) (DECK 2) LVR, CAS LVR, STOP LVR ASSY, PINCH R	* * * *	1 2 1 1
	2-29	★82-ZM1-259-010 ★82-ZM1-240-010	SPR – T, PINCH R LVR, REC (DECK 2)	* *	.1

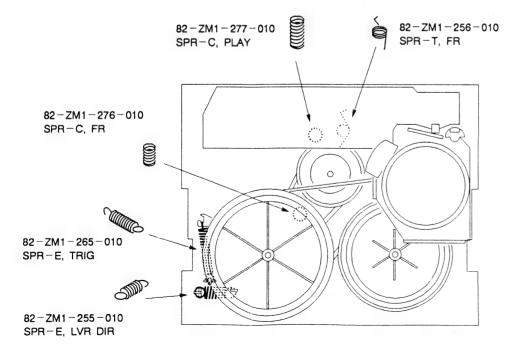
50

EXPLODED VIEW - 3 (FX - WZ7000)



PART NO. CHANGED		REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
		3-1	★ 82-ZM1-255-010	SPR - E, LVR DIR	*	1
		3-2	★ 82-ZM1-221-010	GEAR, CAM	*	1
		3-3	★82-ZM1-227-010	LVR, TRIG	*	1
		3-4	★ 82-ZM1-224-010	LVR, FR	*	1
		3-5	★82-ZM1-265-010	SPR - E, TRIG	*	1
		3-6	★ 82-ZM1-277-010	SPR - C, PLAY	*	1
		3-7	★ 82-Z M 1-223-010	GEAR, PLAY	*	1
		3-8	★82-ZM1-256-010	SPR - T, FR	*	1
		3-9	★ 82-ZM1-220-010	GEAR, IDLER	*	1
3-	3-10	$\pm 80 - 2M6 - 217 - 010$	RING MAGNET 2		1	
		3-11	★ 82-ZM1-216-010	GEAR, REEL	*	2
		3-12	$\pm 82 - ZM1 - 276 - 010$	SPR - C, FR	*	1
		3-13	$\pm 82 - ZM1 - 225 - 010$	GEAR, FR	*	1
		3-14	$\pm 82 - ZM1 - 226 - 010$	GEAR, REW	*	1
		3-15	★82-ZM1-228-010	SLIP DISK ASSY	*	1
		3-16	*82-ZM1-261-010	BELT, FR	*	1
		3-17	82-ZM1-237-010	FLY - WHL ASSY, R	*	1
		3-18	82-ZM1-234-010	FLY - WHL ASSY, L	*	1
		3-19	$\pm 82 - ZM1 - 260 - 010$	BELT, MAIN	*	1
		3-20	$\pm 82 - ZM1 - 245 - 010$	HLDR, IC	*	1
		3-21	*82-ZM1-246-010	HLDR, MOTOR	*	1
		3-22	★82-ZM1-247-010	PULLEY, MOTOR	*	1
		3-23	★82-ZM1-288-010	SH, 1.63 - 3.2 - 0.5 SLT	*	1
		3-24	$\pm 80 - ZM6 - 243 - 010$	SH, 1.75 - 3.6 - 0.5 SLT		1

62



MODEL NO.

TX - Z7000

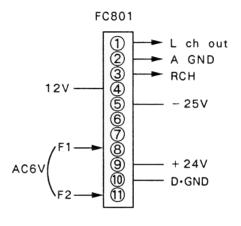
CAUTIONS WHEN SERVICING (TX - Z7000)

Model TX-Z7000 does no have a power supply circuit. Power is supplied to it through a 11-pin flat cable and the signal inputs/outputs are also performed through this cable.

When servicing the TX - Z7000 connect it to the MX - Z7000M so that power is supplied to the TX - Z7000. If the MX - Z7000M is not available, follow the procedure below.

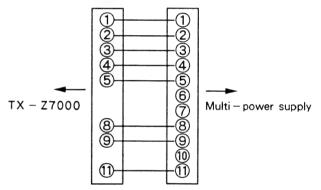
[When servicing the unassembled TX - Z7000]

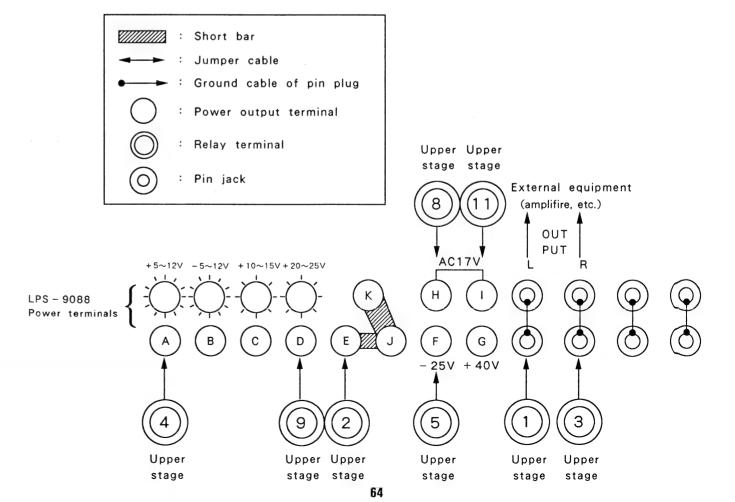
(1) Supply the following voltages to each terminal from an external power supply.



- ② Connection diagram when using multi power supply (LPS 9088).
 - Turn the TX-Z7000 on using the SLEEP function since the POWER SW is not supplied.
 - ${}^{\bullet}$ Connect the multi-conversion harness for the X5 type (modelfied harness for F550) to J1.

Connection diagram of multi-conversion harness





ELECTRICAL MAIN PARTS LIST (TX - Z7000)

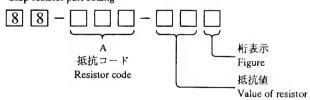
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	יילת DESCRIPTION NO.
IC	87-001-376-010 87-001-942-010 87-020-446-010 81-VT1-610-010	IC, LC7218 IC, LA1265 IC, TA7343/ IC, UPD7520	S(G) AP	C31 C32 C33 C34 C35	87-010-197-080 87-010-197-080 87-010-405-080 87-010-166-080 87-010-197-080	C-CAP, S 0. 01-25 B CAP, E 10-50 SME C-CAP, S 100P-50 SL
TRANSISTO		C-FET, 2SK		C36 C37 C38 C39 C40	87-010-401-080 87-010-404-080 87-010-405-080 87-010-544-080 87-010-403-080	CAP, E 4. 7-50 SME CAP, E 10-50 SME CAP, E 0. 1-50
	89-502-115-080 89-503-025-080 89-503-025-080 89-327-143-080 89-316-235-080	C-FET, 2SK C-FET, 2SK C-TR, 2SC2 C-TR, 2SC1	211GR (YE, YZ) 302GR 714(0)	C41 C42 C43 C45	87-010-404-080 87-010-404-080 87-010-197-080 87-010-404-080	CAP, E 4. 7-50 SME CAP, E 4. 7-50 SME (YZ) C-CAP, S 0. 01-25 B
	89-327-125-080 89-333-266-080 87-026-230-080 89-110-485-080 89-318-155-080	C-TR, 2SC3 C-TR, DTA1 TR, 2SA104 TR, 2SC181	326B 14YK 8GR 5GR	C46 C47 C48 C49 C50	87-010-197-080 87-010-197-080 87-010-197-080 87-010-197-080 87-010-197-080	C-CAP, S 0. 01-25 B C-CAP, S 0. 01-25 B C-CAP, S 0. 01-25 B C-CAP, S 0. 01-25 B C-CAP, S 0. 01-25 B
DIODE	89-320-011-080 89-324-585-080 87-026-214-080	TR, 2SC245	8GR	C51 C52 C53 C54 C55	87-010-197-080 87-010-197-080 87-010-196-080 87-010-197-080 87-014-049-080	C-CAP, S 0. 01-25 B (YE, YZ) C-CAP, S 0. 1-25 F C-CAP, S 0. 01-25 B (YE, YZ) CAP, PP 470P-100 J (YE, YZ)
	87-020-125-080 87-020-027-080 87-026-360-080 87-026-360-010 87-020-583-080	C-DIODE, 1 C-VARICAP C-VARICAP	SS184 , KV1430 (YLH, YH, YZ) , KV1430 (YE)	C56 C57 C58 C60 C61	87-010-158-080 87-010-152-080 87-010-169-080 87-014-050-080 87-010-404-080 87-010-401-080	C-CAP, S 8P-50 CH(YLH, YH) C-CAP, S 180P-50 SL(YE, YZ) CAP, PP 510P-100 J(YE, YZ) CAP, E 4. 7-50 SME(YZ)
	87-020-585-080 87-020-110-080 81-754-634-090 87-027-449-080 87-017-172-080	C-ZENER, 0 DIODE, 1SS VARI-CAP, ZENER, HZ1 ZENER, HZS	2CZ6. 2Y :177 KV1260 (YE, YZ) 5-3L :11A1L		87-010-403-080 87-014-057-080 87-010-405-080 87-010-220-080 87-010-220-080) CAP, E 3. 3-50 SME) CAP, PP 1000P-100 J) CAP, E 10-50 SME) C-CAP, S 0. 018-25 B
MAIN C. B				C69 C70	87-010-404-080 87-010-404-080) CAP, E 4. 7-50 SME
<u>C1</u>	81-MT3-655-010 81-689-212-010 87-010-312-080	PLATE, EAR C-CAP, S 1	5P-50 CH	C73 C74 C75	87-010-404-080 87-010-404-080 87-010-248-080	CAP, E 4. 7-50 SME
C2 C3	87-015-819-080 87-010-197-080	C-CAP, S		C76 C77 C78	87-010-312-080 87-010-197-080 87-010-197-080) C-CAP, S 0. 01-25 B
C4 C5 C6 C7	87-010-197-080 87-010-197-080 87-010-197-080 87-010-147-080)), 01-25 B	C79 C80	87-010-197-080 87-010-384-080	C-CAP, S 0. 01-25 B
C7 C8 C9 C10	87-010-150-080 87-018-102-080 87-010-158-080 87-010-154-080	C-CAP, S 6 CAP, TC-U C-CAP, S 2 C-CAP, S 3	SP-50 CH(YLH, YH, YE) 6. 8P-50 SL (YLH, YH, YE) 22P-50 SL 10P-50 CH	C81 C82 C83 C84 C85	87-010-186-080 87-010-400-080 87-015-762-080 87-010-164-080 87-010-164-080	O CAP, E O. 47-50 SME O C-CAP, 68P SL O C-CAP, S 68P-50 SL
C11 C12	87-010-312-080 87-010-312-080	C-CAP, S 1 C-CAP, S 1	15P-50 CH	C86 C87	87-018-134-080 87-010-263-080) CAP, E 100-10(YLH, YH, YE)
C13 C14 C15 C15	87-010-197-080 87-010-146-080 87-010-145-080 87-010-148-080 87-010-154-080)), 01-25 B 2P-50 CH 1P-50 CH(YLH, YH, YE) 4P-50 CH(YZ) 10P-50 CH(YLH, YH, YE)	C87 C88 C100	87-010-404-080 87-010-381-080 87-010-197-080 87-010-197-080	CAP, E 330-16 SME C-CAP, S 0. 01-25 B
C16 C16 C17 C18	87-010-134-080 87-010-149-080 87-010-170-080	C-CAP, S	5P-50 CH(YZ) 0.01-25 B 220P-50 SL	C102 C103 C103 C104	87-010-311-080 87-010-197-080 87-010-311-080 87-010-197-080	O C-CAP, S 12P-50 CH(YE, YZ) O C-CAP, S 0. 01-25 B(YE) O C-CAP, S 12P-50 CH(YZ)
C19 C20	87-010-197-086 87-010-197-086	C-CAP, S (D. 01-25 B D. 01-25 B	C106 C110	87-010-145-080 87-010-263-080	0 CAP. E 100-10
C21 C22 C23 C24	87-010-197-08 87-010-400-08 87-010-197-08 87-010-149-08	0 CAP, E 0 0 C-CAP, S 0 0 C-CAP, S	5P-50 CH	C111 C112 C781	87-010-405-08(87-010-401-08(87-010-197-08(0 CAP, E 1-50 SME 0 C-CAP, S 0. 01-25 B
C25 C26 C27 C30	87-010-197-08 87-010-312-08 87-010-197-08 87-010-401-08	0	0. 01-25 B (YLH, YH, YE) 15P-50 CH 0. 01-25 B 50 SME	CF1 CF2 CF2 CF3 CF4	87-030-105-010 82-799-621-010 87-008-261-010 87-008-261-010 87-008-261-010	0 FLTR, SFE10. 7MS2-A (YZ) 0 FLTR, SFE10. 7MA5-A (YLH, YH, YE) 0 FLTR, SFE10. 7MA5-A (YZ)

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
CF5 J1 J1 J1 J1	82-794-670-010 81-653-648-010 81-653-638-110 81-631-646-010 87-033-214-010	BFU450C4N ANT TERM ANT TERMI ANT TERM ANT TERM	EARTH PAL (YE, YZ) NAL EARTH (YLH, YH) 2P PAL (YE, YZ) 4P (JT) (YLH, YH)	C912 C913 C915 C916 CF901	87-018-209-080 87-018-209-080 87-010-381-080 87-010-381-080 87-008-394-080	CAP, TC-U CAP, E 330 CAP, E 330	0.1-50 F 0.1-50 F 0-16 SME 0-16 SME .19 MGW
J2 L1 L2 L3 L4	81-754-629-010 87-006-209-010 87-006-210-010 87-006-200-010 87-006-201-010	CONNECTOR COIL, ANT COIL, ANT COIL, RF F COIL, RF F	XH M 2P (UL)(YE) FM 3/4 T FM 2 3/4T M 3-1/2T,L5 M3-1/2TS, L5	FL901 L901 L902 L903 L904	80-VT1-608-010 87-003-102-080 87-003-102-080 87-003-102-080 87-003-102-080	COIL, 10UI COIL, 10UI COIL, 10UI	H H H
L5 L6 L7 L8 L9	87-006-201-010 87-006-205-010 87-003-231-080 87-008-427-010 81-631-611-010	COIL, RF F COIL, OSC C-COIL, S1 COIL, FMIF COIL, QUAD	M3-1/2TS, L5(YZ) FM(7K) UH T(4T) (SINGLE)	RU901 SW901 SW901 SW902 SW902	87-002-669-010 87-036-215-080 87-036-259-080 87-036-215-080 87-036-259-080	SW, TACT SW, TACT	71X EV021404M(YLH, YH) SKHVBB(YE, YZ) EV021404M(YLH, YH) SKHVBB(YE, YZ)
L11 L12 L13 L14 L15	87-008-452-010 87-006-207-010 87-006-208-010 82-794-687-010 87-008-461-010	FILTER, CF COIL, ANT COIL, ANT COIL, OSC COIL, 2POL	AZ-450 MW (3B) (YE, YZ) LW(YE, YZ) YE, YZ) E MPX	SW903 SW903 SW904 SW904 SW905	87-036-215-080 87-036-259-080 87-036-215-080 87-036-259-080 87-036-215-080	SW, TACT S SW, TACT S SW, TACT S	EV021404M(YLH, YH) SKHVBB(YE, YZ) EV021404M(YLH, YH) SKHVBB(YE, YZ) EV021404M(YLH, YH)
L16 L17 L18 L19 SFR1	87-008-461-010 82-794-688-010 87-008-421-010 87-003-098-080 87-024-174-080	COIL, 2POL COIL, OSC COIL, FILT COIL, 2. 2U SFR, 33K D	E MPX LW(YE, YZ) ER AMTI-BIRDIE(YZ) H NIAG V	SW905 SW906 SW906 SW907 SW907	87-036-259-080 87-036-215-080 87-036-259-080 87-036-215-080 87-036-259-080	SW, TACT I SW, TACT I SW, TACT I	SKHVBB (YE, YZ) EVO21404M(YLH, YH) SKHVBB (YE, YZ) EVO21404M(YLH, YH) SKHVBB (YE, YZ)
SFR2 TC1 TC2 TC3 TC4	87-024-171-080 87-011-219-080 87-011-219-080 87-011-219-080 87-011-220-080	SFR, 4. 7K CAP, TRIMA CAP, TRIMA CAP, TRIMA CAP, TRIMA	E MPX LW(YE, YZ) ER AMTI-BIRDIE (YZ) H VIA6 V DIA6 V ER 10P VCT IER 10P VCT IER 10P VCT (YZ) IER 20P VCT (YZ)	SW908 SW908 SW909 SW909 SW910	87-036-215-080 87-036-259-080 87-036-215-080 87-036-259-080 87-036-215-080	SW, TACT S SW, TACT S SW, TACT S	EV021404M(YLH, YH) SKHVBB(YE, YZ) EV021404M(YLH, YH) SKHVBB(YE, YZ) EV021404M(YLH, YH)
TC5 TC6 WH802 X1	87-011-221-080 87-011-221-080 82-VT1-605-010 87-030-163-010	TRIMMER. 3 TRIMMER. 3 CORD, FG 1 VIB, XTAL	30P VCT51 30P VCT51 (YE, YZ) 11P 7. 2MHZ (NDK)	SW910 SW911 SW911 SW912 SW912	87-036-259-080 87-036-215-080 87-036-259-080 87-036-215-080 87-036-259-080	SW, TACT S SW, TACT S SW, TACT	SKHVBB (YE, YZ) EVO21404M(YLH, YH) SKHVBB (YE, YZ) EVO21404M(YLH, YH) SKHVBB (YE, YZ)
FRONT C.	3			SW913 SW913	87-036-215-080 87-036-259-080		EVQ21404M(YLH, YH) Skhvbb(ye, YZ)
C901 C902 C903 C904	87-018-131-080 87-010-553-080 87-010-498-080 87-010-494-080	CAP, TC-U CAP, E 47- CAP, E 10- CAP, E GAS	1000P-50 B 16 16 5L 11/50 1000P-50 B 7-35 5L 1/50 1/50 0.01-16 Y 96) 1000-6.3V	SW914 SW914 SW915	87-036-215-080 87-036-259-080 87-036-215-080	SW, TACT I	EVO21404M(YLH, YH) SKHVBB(YE, YZ) EVO21404M(YLH, YH)
C905	87-018-131-080	CAP, TC-U	1000P-50 B	SW915 SW916	87-036-259-080 87-036-215-080	SW, TACT I	SKHVBB (YE, YZ) EVQ21404M(YLH, YH)
C906 C907 C908 C909	87-010-497-080 87-010-494-080 87-010-494-080 87-018-134-080	CAP, E 4.7 CAP, E GAS CAP, E GAS CAP, TC-U	/-35 5L 6 1/50 6 1/50 0.01-16 Y	SW916 SW917 SW917	87-036-259-080 87-036-215-080 87-036-259-080	SW. TACT S	SKHVBB (YE, YZ) EVQ21404M(YLH, YH) SKHVBB (YE, YZ)
C910	87-010-252-080	CAP, E(TAP	PG) 1000-6. 3V	SW918 SW918	87-036-215-080 87-036-259-080		EVQ21404M(YLH, YH) Skhvbb(Ye, Yz)
C911	87-018-209-080	CAP, TC-U	0. 1-50 F				

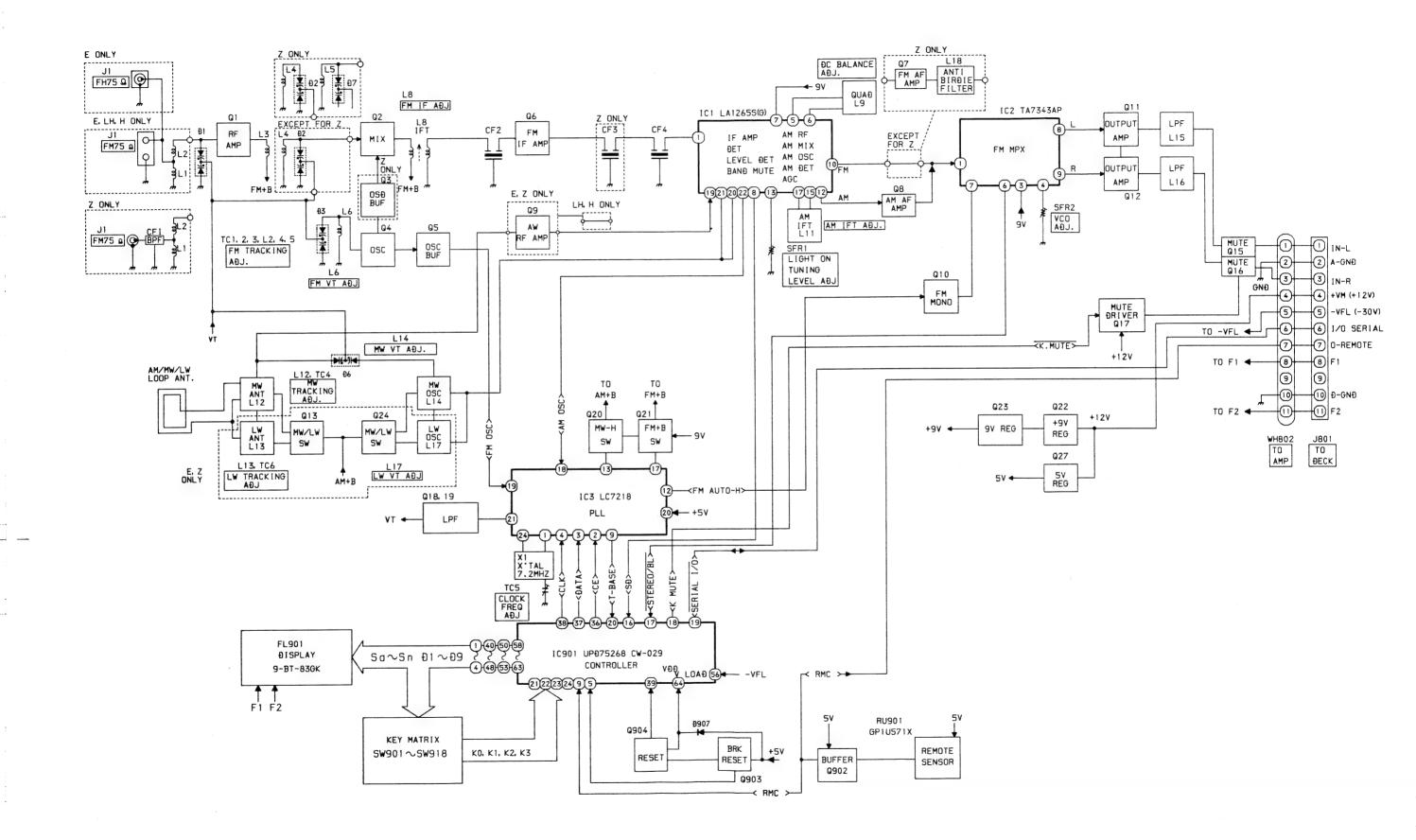
○チップ抵抗部品コード/CHIP RESISTOR PART CODE

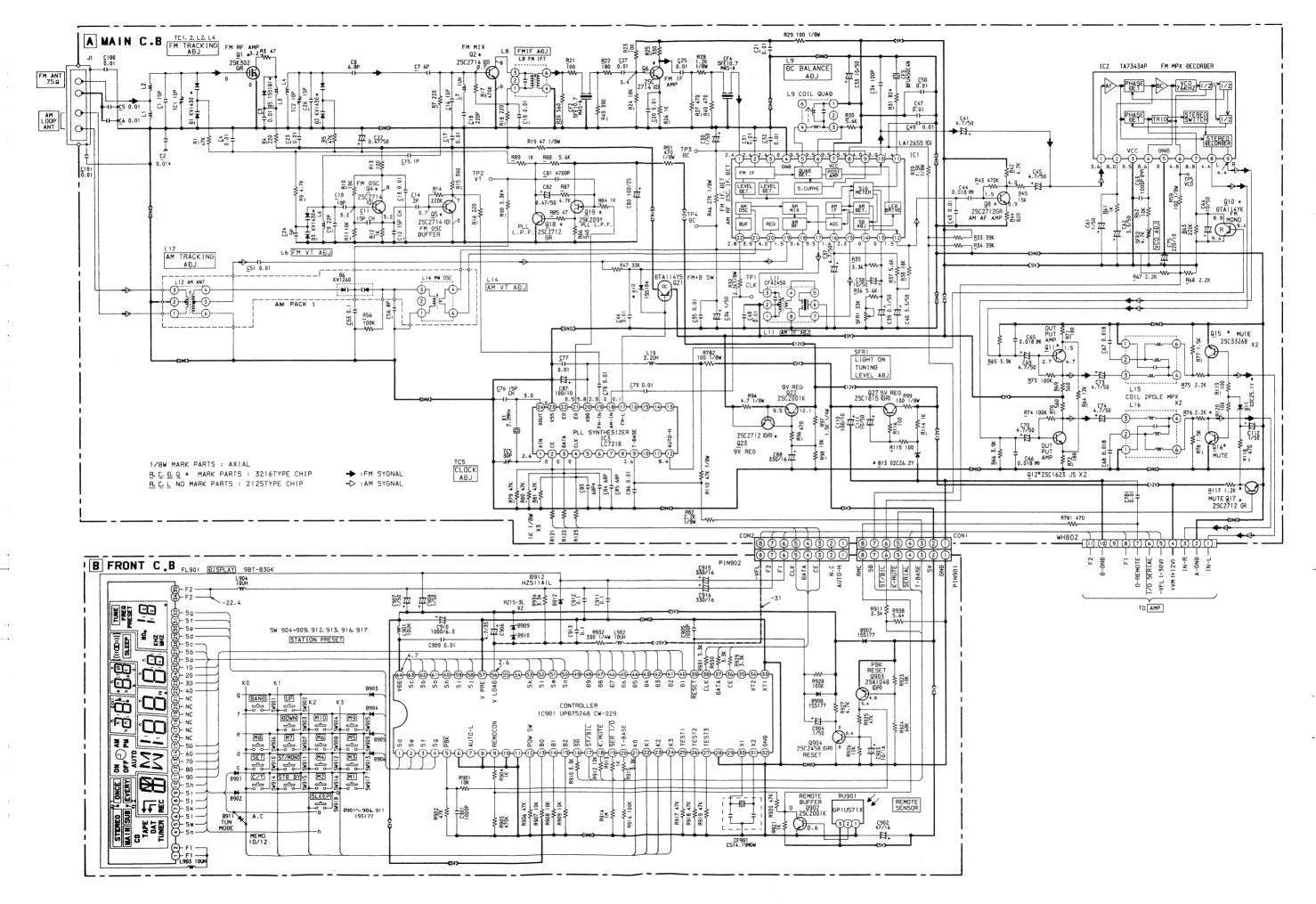
チップ抵抗部品コードの成り立ち Chip resistor part coding

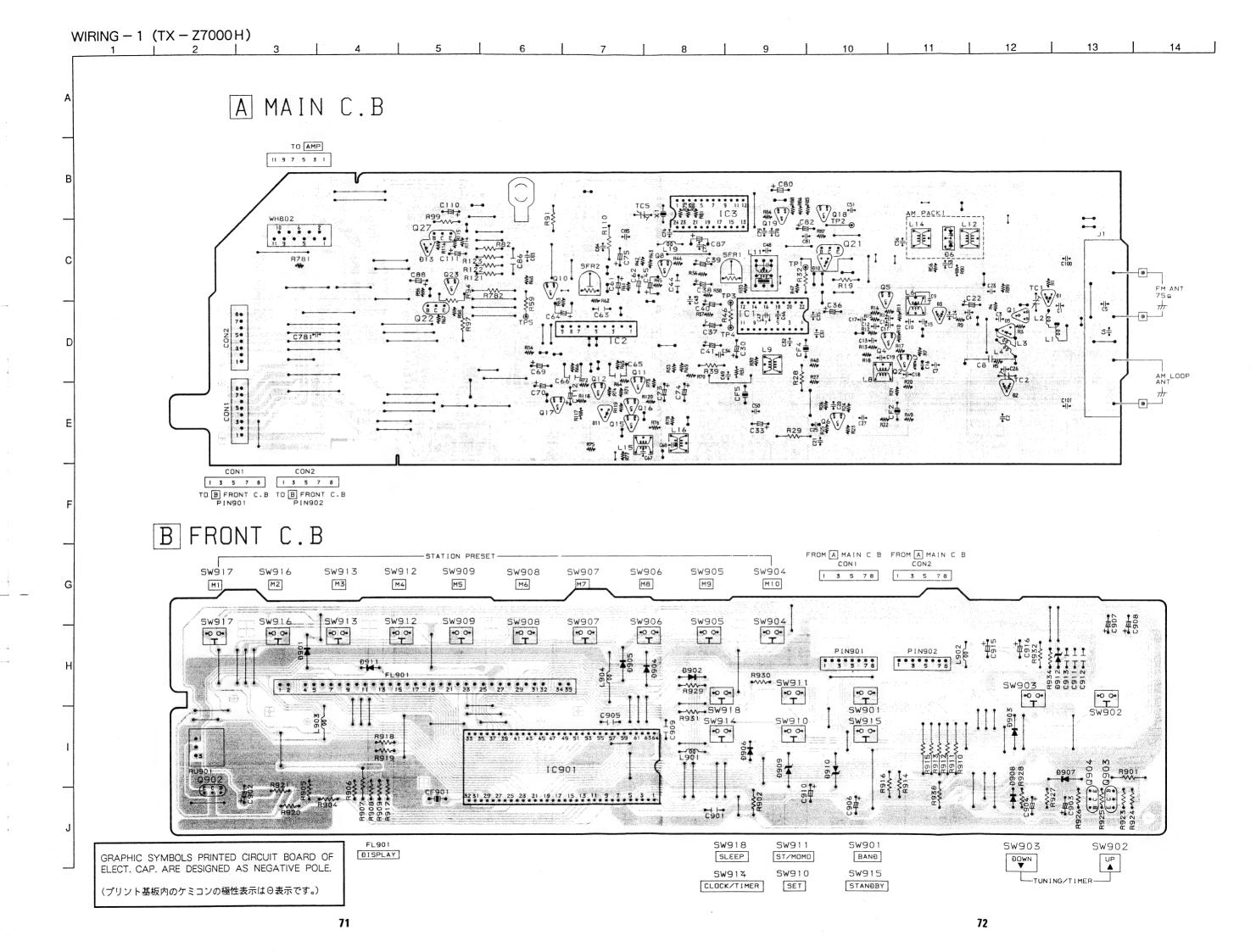


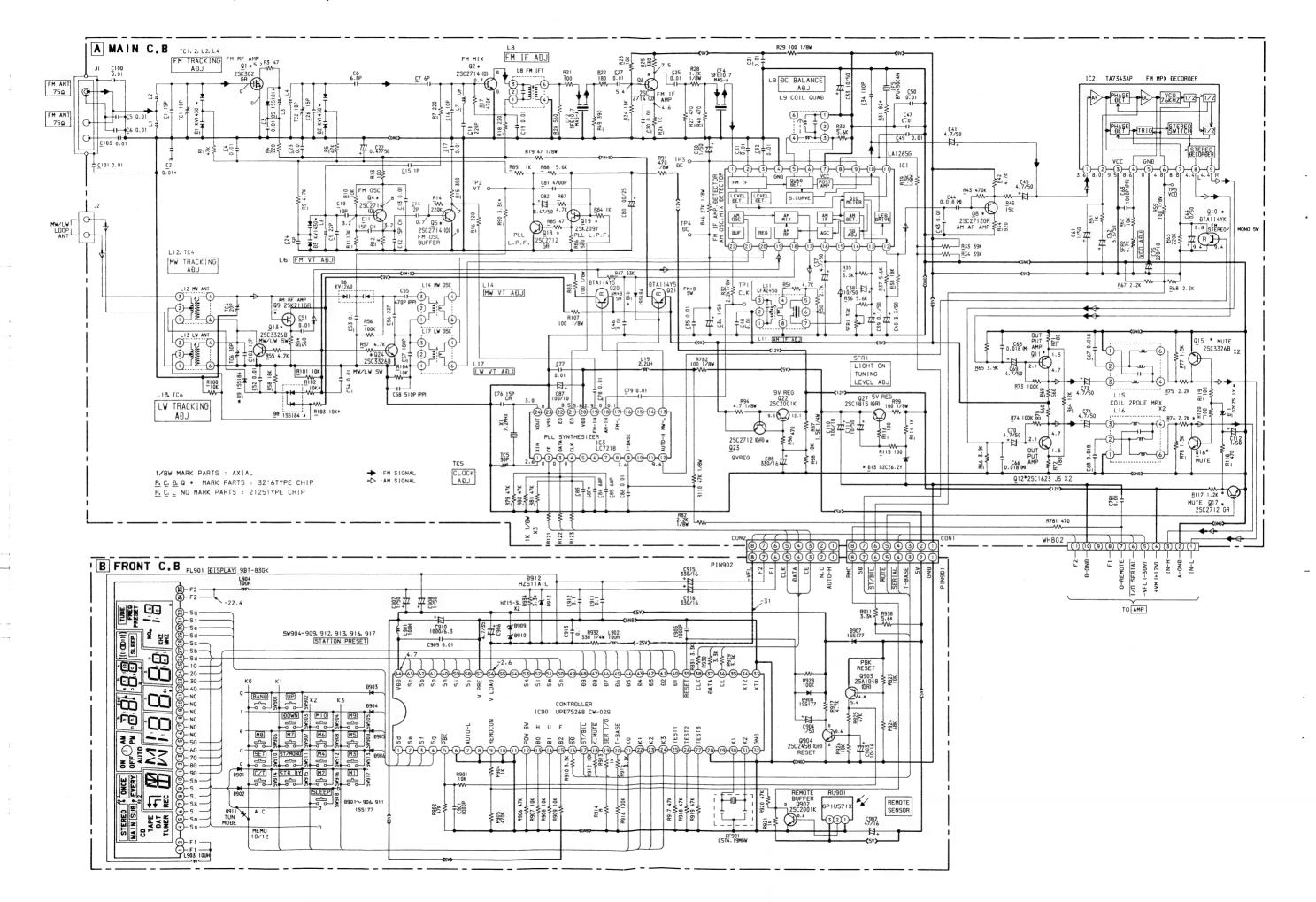
チップ抵抗 Chip resistor

Wattage	Туре	Tolerance	Symbol	Dimensions/寸	法 (mr	n)		Resistor code: A
容量	種類	許容誤差	記号	Form/外形	L	W	t	抵抗コード :A
1/32W	1608	±5%	CJ	⊬— L—>↓	1.6	0.8	0.35	801
1/10W	2125	±5%	CJ	1	2	1.25	1.45	118
1/8W	3216	±5%	CI	W	3.2	1.6	0.5 ~0.7	128









(プリント基板内のケミコンの極性表示はΘ表示です。)

__TUNING/TIMER____

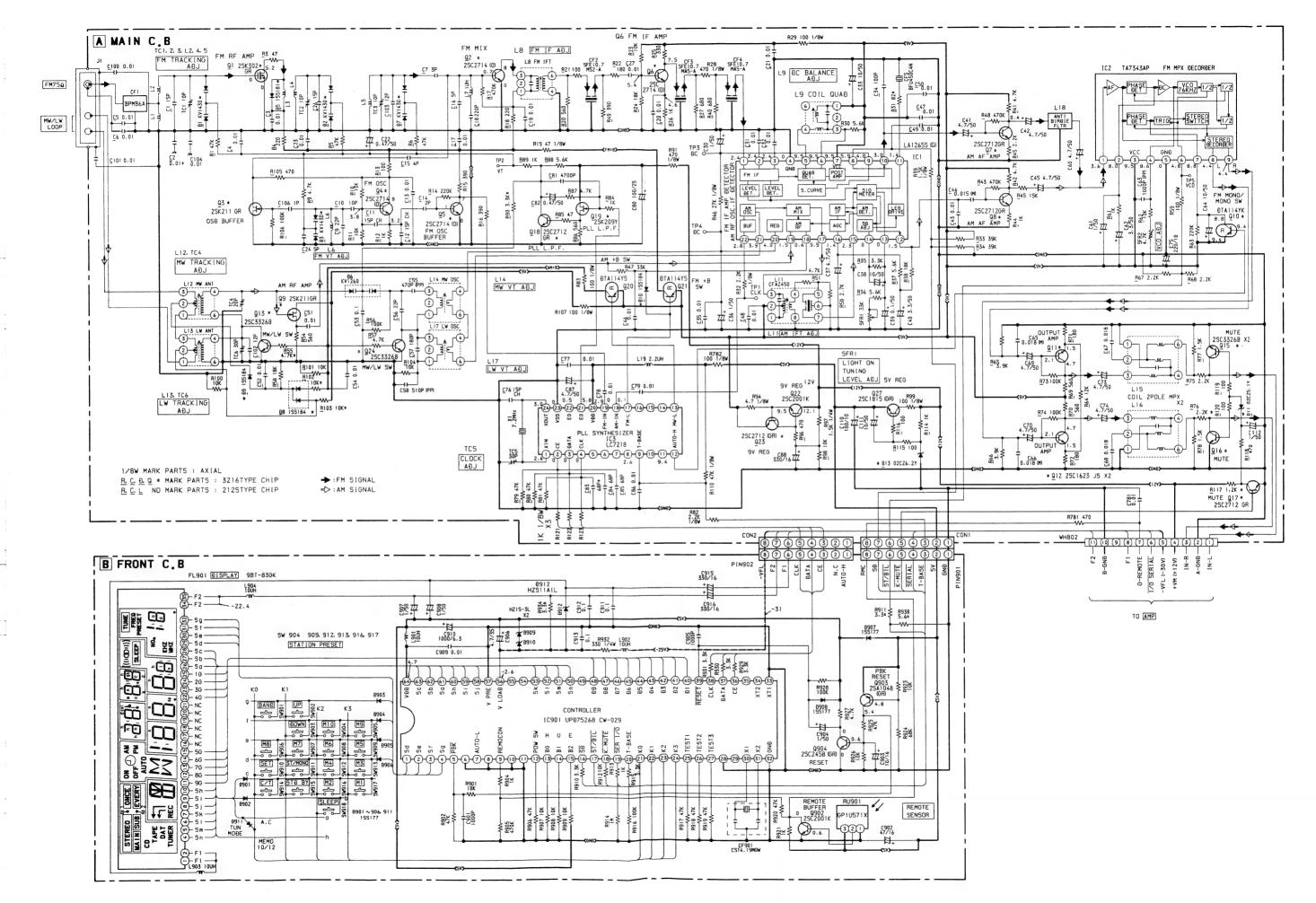
SW910

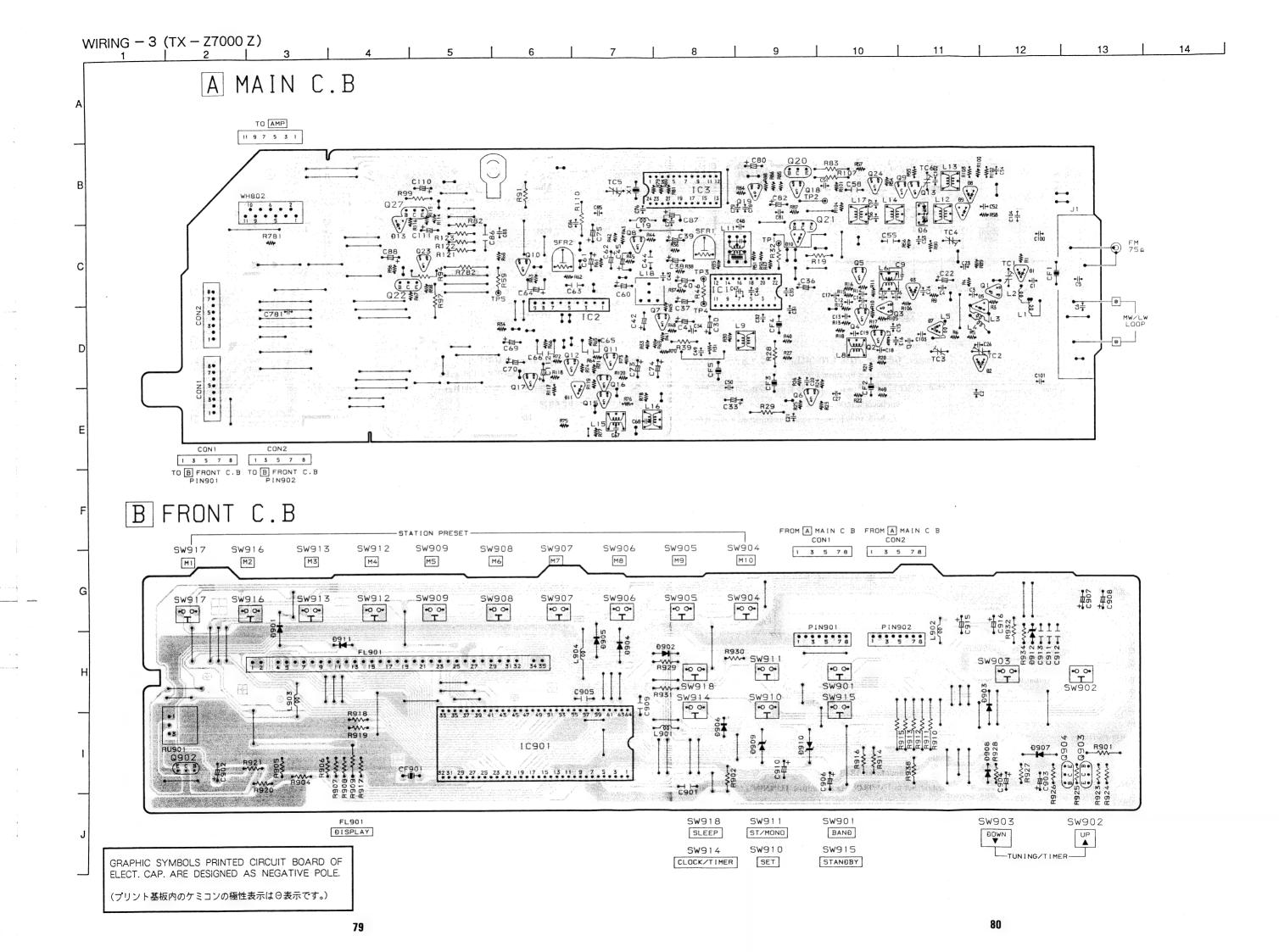
SET

STANĐBY

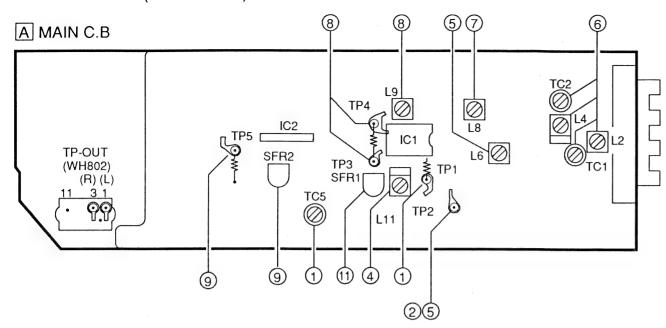
SW914

CLOCK/TIMER





ADJUSTMENT-1(TX-Z7000H)



1. Clock Frequency Adjustment

Settings: • Test point: TP1

· Adjustment location: TC5

Method: Set to AM 1602kHz and adjust so that the test point becomes $2052kHz\pm0.01kHz$.

2. AM VT Check

Settings: · Test point: TP2 (VT)

Method: Set to AM 531kHz and check so that the test point becomes $1.1V\pm0.20V$.

3. AM Tracking Check

Settings: · Test point: TP-OUT (WII802)

Method: Set to AM 999kHz and check so that the sensitivity becomes less than 56dB.

4. AM IF Adjustment

5. FM VT Adjustment

Settings: · Test point: TP2 (VT)

· Adjustment location: L6

Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes $9.0V \pm 0.05V$.

6. FM Tracking Adjustment

Settings: •	Test point: TP-OUT (WII802)
TC1, 2	108.0MIIz
L2. 4 · ·	87.5MIIz

7. FM IF Adjustment

Settings: • Test point: TP-OUT (WI1802)

L8 · · · · · · 10.7MHz

8. DC Balance Adjustment

Settings: · Test point: TP3, 4 TP-OUT (WII802) (Distortion)

· Adjustment location: L9

Method: Set to FM 98.0MHz and adjust L9 so that TP3 and TP4 output becomes $0V \pm 0.02V$.

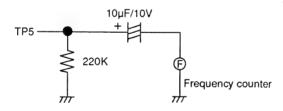
Next, check so that the distortion becomes less than 0.6%.

9. MPX VCO Adjustment

Settings: · Test point: TP5

- · MODE SW: STEREO
- · Adjustment location: SIR2

Method: Connect a capacitor and resitor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes $38kHz\pm0.05kHz$.



10. Separation Check

Settings: · Test point: TP-OUT (WII802)

Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.

11. Light on tunning LED Adjustment

Settings: · Adjustment location: SFR1

· Input level: 18dB

Method: Set to FM 98.0MHz and adjust TUNNING LED to light on by SFR1. After that, LED goes out by 2dB down.

PRACTICAL SERVICE FIGURE -1

(TX - Z7000 H)

<FM SECTION>

IHF Sensitivity: 4 ± 4dB (at 87.5MHz)

(THD 3%) $2 \pm 3 dB \text{ (at } 98.0 / 108.0 MHz)$

S/N 50dB Quieting Sensitivity:

Less than 34dB

(at 87.5/98.0/108.0MHz)

Signal to Noise Ratio: (MONO)

More than 72dB (at 98.0MHz)

(STEREO)

More than 65dB (at 98.0MHz)

Distortion: (MONO)

Less than 0.6% (at 98.0MHz)

(STEREO)

Less than 1.5% (at 98.0MHz)

Stereo Separation: More than 27dB

Intermediate Frequency:

10.7MHz

<AM SECTION>

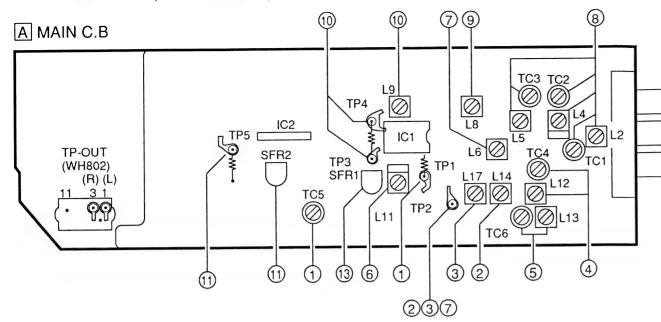
Sensitivity:

 $56 \pm 4 dB \text{ (at } 603 \text{ kHz)}$

(S/N 20dB) Distortion: 52±4dB (at 999/1404kHz) Less than 1.5% (at 999kHz)

Intermediate Frequency:

450kHz



1. Clock Frequency Adjustment

Settings: · Test point: TP1

· Adjustment location: TC5

Method: Set to MW 1611kHz and adjust so that the test point becomes 2061kHz±0.01kHz.

2. MW VT Adjustment

Settings: · Test point: TP2 (VT)

· Adjustment location: L14

Method: Set to MW 522kHz and adjust L14 so that the test point becomes $1.0V\pm0.05V$.

3. LW VT Adjustment

Settings: • Test point: TP2 (VT)

· Adjustment location: L17

Method: Set to LW 144kHz and adjust L17 so that the test point becomes $1.3V\pm0.05V$.

4. MW Tracking Adjustment

	Test point: TP-OUT (WII802)	ttings: •	S
603kHz		L12 · · ·	
,404kHz		TC4 · ·	

5. LW Tracking Adjustment

S	ettings: ·	1	es	į	P	Ю	110	าเ	:	ı	ł	-	C	,,	J	1	(٧	٧	1 !	0	U	4)							
	L13 · · ·								,																,						144kHz
	TC6 · ·																														290kHz

6. AM IF Adjustment

Settings: •	Test point: TP-OUT (WH802)	
I 11 · · ·		OkHz

7. FM VT Adjustment

Settings: • Test point: TP2 (VT)

· Adjustment location: L6

Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes $9.0V \pm 0.05V$.

8. FM Tracking Adjustment

Settings: Test point: TP-OUT (WH802)
L2, 4 · · · · · · · 87.5MHz (E)
L2, 4, 5 · · · · · · 87.5MHz (Z)
TC1, 2 · · · · · · 108.0MHz (E)
TC1, 2, 3 · · · · · · 108.0MHz (Z)

9. FM IF Adjustment

Settings: • T	Test point: TP-OUT (WH802)	
L8 · · · ·		10.7MHz

10. DC Balance Adjustment

Settings: Test point: TP3, 4 TP-OUT (WH802) (Distortion)

· Adjustment location: L9

Method: Set to FM 98.0MHz and adjust L9 so that TP3 and TP4 output becomes 0V $\pm\,0.02$ V.

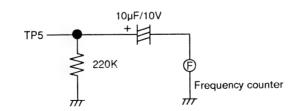
Next, check so that the distortion becomes less than 0.6%.

11. MPX VCO Adjustment

Settings: • Test point: TP5

- · MODE SW: STEREO
- · Adjustment location: SFR2

Method: Connect a capacitor and resitor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes $38kHz\pm0.05kHz$.



12. Separation Check

Settings: • Test point: TP-OUT (WH802)

Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.

13. Light on tunning LED Adjustment

Settings: · Adjustment location: SFR1

· Input level: 18dB

Method: Set to FM 98.0MHz and adjust TUNNING LED to light on by SFR1. After that, LED goes out by 2dB down.

PRACTICAL SERVICE FIGURE — 2

(TX - Z7000E, Z)

<FM SECTION>

Usable Sensitivity: 4 ± 4 dB (at 87.5MHz) (E)

(TIID 3%) $8 \pm 4 dB \text{ (at } 87.5 MHz) \text{ (Z)}$ $2 \pm 4 dB \text{ (at } 98.0 \angle 108.0 MHz) \text{ (E)}$

 $6 \pm 4 dB \text{ (at 98.0 } / 108.0 \text{MHz) } (Z)$

S/N 50dB Quieting Sensitivity:

Less than 34dB

(at 87.5/98.0/108.0MHz) (E)

Less than 38dB

(at 87.5/98.0/108.0MHz) (Z)

Signal to Noise Ratio: (MONO)

More than 72dB (at 98.0MHz) (E)

More than 68dB (at 98.0MHz) (Z)

(STEREO)

More than 65dB (at 98.0MHz) (E)

More than 60dB (at 98.0MHz) (Z)

Total Harmonic Distortion:

(MONO)

Less than 0.6% (at 98.0MHz)

(STEREO)

Less than 1.5% (at 98.0MHz)

Stereo Separation: More than 27dB

Intermediate Frequency:

10.7MHz

<MW SECTION>

Sensitivity: $56 \pm 4 dB \text{ (at } 603 \text{kHz)}$

(S/N 20dB) 52 ± 4 dB (at 999/1404kHz)

Total Harmonic Distortion:

Less than 1.5% (at 999kHz)

Intermediate Frequency:

450kHz

<LW SECTION>

Sensitivity:

vity: $63 \pm 5 dB \text{ (at } 144 \text{kHz)}$

(S/N 20dB)

 60 ± 5 dB (at 198/290kHz)

Total Harmonic Distortion:

Less than 1.2% (at 198 kHz)

Intermediate Frequency:

450kHz

IC DESCRIPTION (TX - Z7000)

IC, μ PD75268CW - 029

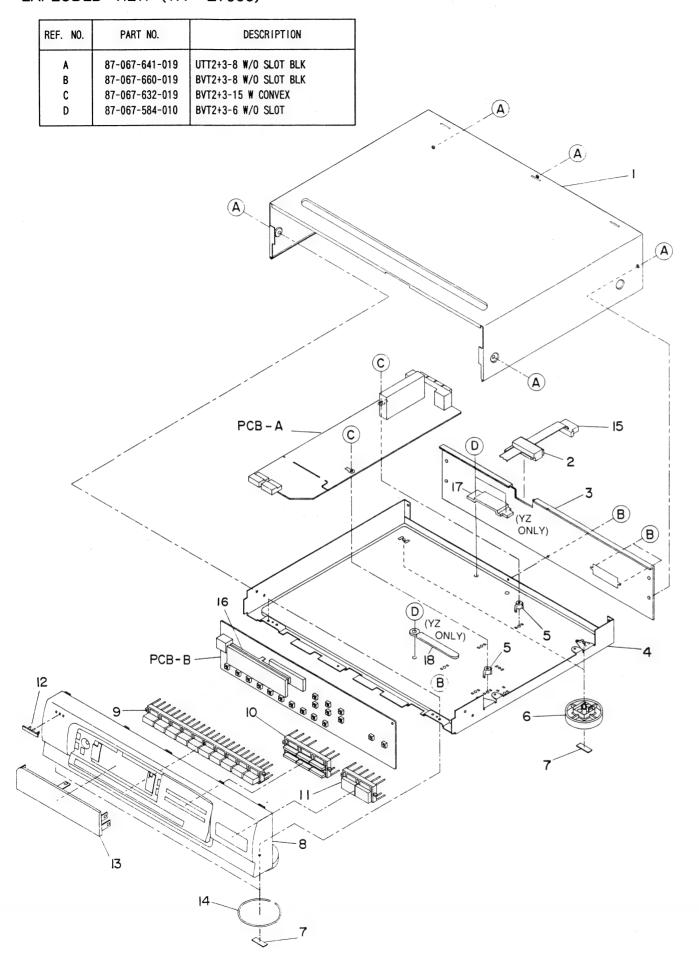
Pin No.	Pin Name	I/0	Description
1~4	Sd~Sg	0	FL display segment signal outputs, key scan signal outputs. Active "H"
	33 38	-	Power failure detection input. When "L" level continues for 30 ms or more, a power failure is detected (the unit enters the backup mode).
_	• PBK	I	5V
5	1 DK	1	"L" level
	•		30ms OV
6		_	Not used (connected to ground).
7	AUTO – L	0	When an FM broadcast is received, this pin outputs a signal depending on the AUTO condition selected by the MODE key. Active "L" when the AUTO indicator lights. • Even if the AUTO indicator changes when the frequency is being set during timer programming, the output follows the condition currently received.
8		-	Not used (connected to ground).
9	REMOCON	I	Serial data input for remote control. Active "H" (the rise is detected).
10		_	Not used (connected to ground).
11			Not used (connected to ground).
12	POW SW	I/0	Power control input port. The power is turned on and off a alternately each time the power switch of the amplifier is pressed.
13	B0	_	These input pins select the frequency range, etc.
14	B2	I	with the 3 bits depending on the destination of the units.
15	B1		
16	SD	Ι	 Input to stop auto scanning. Active "L". The input is not accepted during power off. The input cause "TUNE" to light. Searches for SD signals every 5 ms during auto scanning. When 4 "L" pulses are conuted, sacnning will stop. SD is not detected during manual tuning.
17	STEREO	I	Input which causes the STEREO indicator to light. Active "L". • This input is not accepted during power off.
18	K • MUTE	0	Outputs a muting signal when a key is operated.
19	SER I/O	I/0	8 - bit serial data input/output.
20	T – BASE	I	Receives 8Hz pulses from the PLL (LC7218) as a clock signal timing.
21~24	KO~K3	I	Key matrix inputs (K2 and K3 are not used and connected to ground).
25	TEST1	_	
26	TEST2	I	Test mode setting inputs.
27	TEST3		Describes the commercial neuron frequency (the AC level is EV) as a reference
28	AC CLK	I	Receives the commercial power frequency (the AC level is 5V) as a reference signal for the clock. Not used (connected to ground).
29		_	Not used (not connected).
30	X1		A ceramic oscillator which generates the main system clock signal
31	X2	_	(4.19MHz) is connected.
32	GND	-	Ground pin.
33	XT1		Not used (connected to ground).
34	XT2	_	Not used (not connected).
35	POW ON	_	Not used (not connected). Goes "H"during power on and "L"during power off
36	CE		
37	DATA	0	Output ports which transmit serial data to the PLL (LC7218). Active "H".
38	CLK		
39	RESET	I	System reset input. When the TUNER MODE and BAND switches are pressed and held for 1 second, the clock and preset stations are reset.

Pin No.	Pin Name	1/0	Description							
40~48	D1~D9	0	FL display digit outputs.							
49		_	Not used (not connected).							
50	Sn									
51	Sm	0	El display compant outside							
52	Sl	7 0	FL display segment outputs.							
53	Sk	1								
54			Not and (not constal)							
55		1 -	Not used (not connected).							
56	V LOAD	I	Supplies power (-25V) to the output buffer of the FL display driver.							
57	V PRE	I	Connected to ground.							
58	Sj									
59	Si	1								
60	Sh	1 ,	El display coment outputs							
61	Sa	0	FL display segment outputs.							
62	Sb	7								
63	Sc	1								
64	VDD	-	+5V power terminal.							

IC, LC7218

Pin No.	Pin Name	I/0	Description
1 24	X IN X OUT	-	Clock oscillator connection pins. A 7.2MHz crystal oscillator is connected.
2 3 4	CE DATA CLK	I	When a key is operated, signals are transferred from the CPU. Active "H".
5 ≀ 8		-	Unused (Not connected).
9	T - BASE	0	Outputs an 8Hz signal. Transfers it to the CPU as a time base clock signal.
10		_	Unused (Not connected).
11		0	Unused (Not connected).
12	AUTO – H	-	Outputs "H" when FM stereo switching is set to AUTO.
13	MW (AM) -L	0	Outputs "L" when an MW (AM) broadcast is received.
14 15 16		-	Unused (Not connected).
17	FM – L	0	Outputs "L" when an FM broadcast is received.
18	AM – IN	I	AM local oscillation input.
19	FM – IN	I	FM local oscillation input.
20	VDD	_	Power supply pin. 5V ± 10 %
21	EOι	0	PLL error output.
22	EO ₂	_	Unused (Not connected).
23	VSS	_	Ground pin.

EXPLODED VIEW (TX - Z7000)



MECHANICAL PARTS LIST (TX - Z7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★82-VT1-009-119	CAB, STEEL	*	1
	2	★ 89-VT5-202-010	BUSHING, CORD		1
	3	★82-VT1-010-019	PANEL, REAR YHJBN (YH)	*	1
	3	★82-VT1-016-019	PANEL, REAR YLHJBN (YLH)	*	1
	3	★82-VT1-012-019	PANEL, REAR YEBNE (YE)	*	1
	3	★82-VT1-013-019	PANEL, REAR YZBNE (YZ)	*	1
	4		CHASSIS, MAIN		1
	5		HOLDER, PCB		2
	6	★81-VX1-012-019	FOOT, REAR		2
	7	★ 82-V₩2-211-019	FELT, 20 - 7.5 - 2		4
	8	★82-VT1-007-119	CAB, FR EX	*	1
	9	★82-VT1-002-119	KEY, 10	*	1
	10	★82-VT1-003-019	KEY, BAND	*	1
	11	★82-VT1-004-019	KEY, UP/DOWN	*	1
	12	★81-DS1-011-019	BADGE, AIWA N		1
	13	★82-VT1-005-019	WINDOW, TU	*	1
	14	★81-V₩1-015-019	RING FOOT		2
	15	★82-VT1-605-010	CORD, FG 11P	*	1
	16	★ 81-690-201-110	GUIDE, FL		1
	17	★81-VX1-210-110	HLDR, WIRE G (YZ)		1
	18	★ 87-038-039-010	WIRE, BINDER (YZ)		1

MODEL NO.

GE - Z7000

CAUTIONS WHEN SERVICING (GE-Z7000)

Model GE-Z7000 does not have a power supply circuit and a control circuit. When servicing the GE-Z7000, connect it to the MX-Z7000M.

ELECTRICAL MAIN PARTS LIST (GE-Z7000)

DESCRIPTION で判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

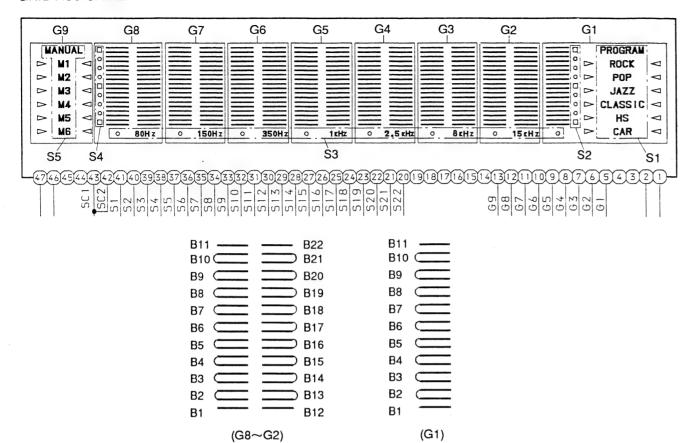
REF. NO	PART NO.	אין DESCRIPTION NO.	REF. NO	PART NO.	איט DESCRIPTION NO.
IC	82-VU1-631-010 87-002-950-019 87-001-637-089	IC. BA3826S	R83 S1 S1 S2 S2	87-022-473-059 87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088	SW, TACT EVQ21404M(YJ) SW, TACT SKHVBB(Y) SW, TACT EVQ21404M(YJ)
TRANSISTO	0R 89-320-011-089 87-026-269-089 87-026-245-089	TR, 2SC2001K TR, DTA114ES TR, DTC114ES	S3 S3 S4 S4 S5	87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088 87-036-215-089	SW, TACT SKHVBB(Y) SW, TACT EVQ21404M(YJ) SW, TACT SKHVBB(Y)
DIODE	89-333-284-089 89-110-155-089	TR, 2SC3328 Y	\$5 \$6 \$6 \$7 \$7	87-036-259-088 87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088	SW, TACT EVQ21404M(YJ) SW, TACT SKHVBB(Y) SW, TACT EVQ21404M(YJ)
	87-020-123-089 87-027-323-089 87-027-347-089 87-020-691-089		\$8 \$8 \$9 \$9 \$10	87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088 87-036-215-089	SW, TACT SKHVBB(Y) SW, TACT EVQ21404M(YJ) SW, TACT SKHVBB(Y)
MAIN C. B C20 C21 C22 C23	87-010-405-089 87-018-209-089 87-010-075-089	CAP, TC-U 0.1-50 F CAP, E 10-16 5L	\$10 \$11 \$11 \$12 \$12	87-036-259-088 87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088	SW, TACT EVQ21404M(YJ) SW, TACT SKHVBB(Y) SW, TACT EVQ21404M(YJ)
C24 C25 C26 C27 C28	87-010-408-089 87-014-061-089 87-015-699-089 87-018-134-089 87-010-404-089 87-010-405-089	CAP, E 10-50 7L CAP, TC-U 0.01-16 Y CAP, E 4.7-50 SME CAP, E 10-50 SME	S13 S13 S14 S14 S15	87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088 87-036-215-089	SW, TACT SKHVBB (Y) SW, TACT EV021404M (YJ) SW, TACT SKHVBB (Y) SW, TACT EV021404M (YJ)
C30 C31 C32 C33 C34	87-010-071-089 87-018-131-089 87-018-131-089 87-018-134-089 87-018-134-089	CAP, E 1-50 5L CAP, TC-U 1000P-50 B CAP, TC-U 1000P-50 B CAP, TC-U 0.01-16 Y CAP, TC-U 0.01-16 Y	\$15 \$16 \$16 \$17 \$17	87-036-259-088 87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088	SW, TACT EVQ21404M(YJ) SW, TACT SKHVBB(Y) SW, TACT EVQ21404M(YJ) SW, TACT SKHVBB(Y)
C35 C36 C37 C38 C43 C44	87-018-134-089 87-018-134-089 87-018-127-089 87-018-127-089 87-014-123-089 87-010-101-089	CAP, TC-U 0.01-16 Y CAP, TC-U 470P-50 B CAP, TC-U 470P-50 B CAP, PP 0.068-100 G	\$18 \$18 \$19 \$19 \$20 \$20	87-036-215-089 87-036-259-088 87-036-215-089 87-036-259-088 87-036-215-089	SW, TACT SKHVBB (Y) SW, TACT EV021404M (YJ) SW, TACT SKHVBB (Y) SW, TACT EV021404M (YJ)
FL1 FL2 L1 L3 R82	82-VU1-630-010 82-VU1-630-010 87-003-136-089 87-003-147-089 87-022-473-059	FL, BJ126GK FL, BJ126GK COIL, 100UH COIL, 22UH	T1 WH1 X1 X2	82-VU1-615-019 82-VU1-632-019 82-WX1-704-089 89-MX1-704-089	COTL, FL CORD, 9P FG 55CM CERA LOCK (MU) 3. 9MHZ

IC DESCRIPTION (GE-Z7000)

IC, LC65204A-4B13

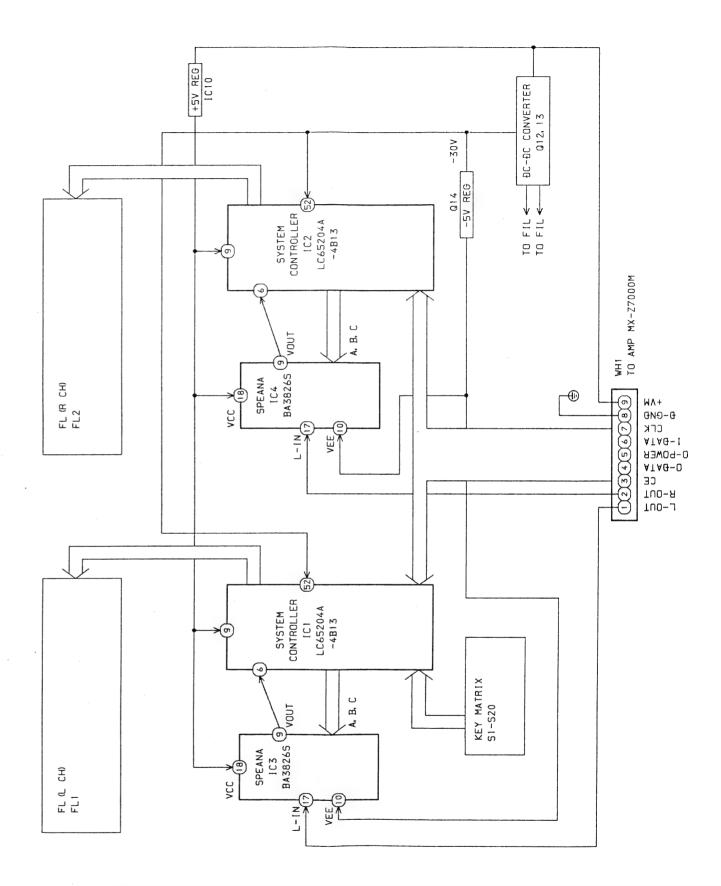
Pin No.	Pin Name	I/O	Description	
1	<u>S1</u>	0	FL display segment output.	
2	SC1/2	0	FL display control.	
3	Α	0		
4	В	0	BA3826S output signal control.	
5	С	0		
6	AD5	I	Sound ditect input. (DC level)	
7	AD6	I		
8	AD7	I	A/D input for key input.	
9	AV+	_	Connected to +5V line.	
10	AV-	_	GND.	
11	VSS	_	GND.	
12	OS1		Violancial (20MI)	
13	OS2		X'tal terminal. (3.9MHz)	
14	VDD	-	Power supply. (+5V)	
15	RST	I	Reset signal input.	
16	X1	I	Connected to +5V line.	
17	X2	_	Not used. (not connected)	
18	TEST	I	Connected to GND.	
19	SI	I	Data input from CXP82324.	
20	SO	0	Data output to CXP82324.	
21	CLK	I	Clock signal input from CXP82324.	
22	CE	I	Strobe signal input from CXP82324.	
23	PC0			
\$ 26	PC3	0	FL display grid drive signals.	
27	PD0			
5	\$	0	FL display grid drive signals.	
30	PD3			
31 \$	PK0	О		
34	PK3			
35	PL0			
\$ 38	PL3	0		
39	PM0			
5	\$	0	FL display segment outputs.	
42	PM3		1 D display segment outputs.	
43 \$	PN0	0		
46	PN3			
47	PO0			
S 50	PO3	0		
51	PP0	0	O	
52	VP	I	FL display power supply. (-30V)	

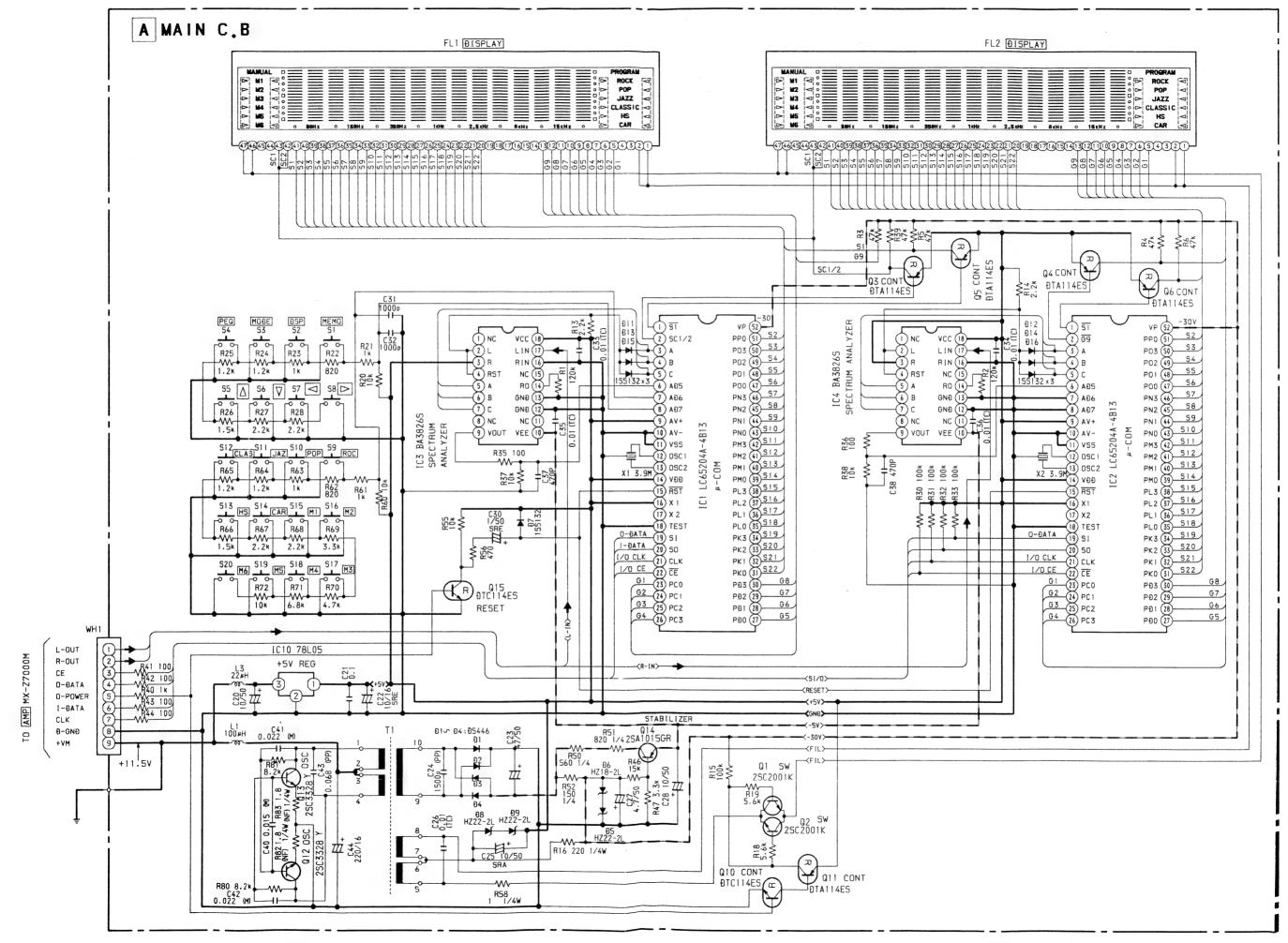
GRID ASSIGNMENT



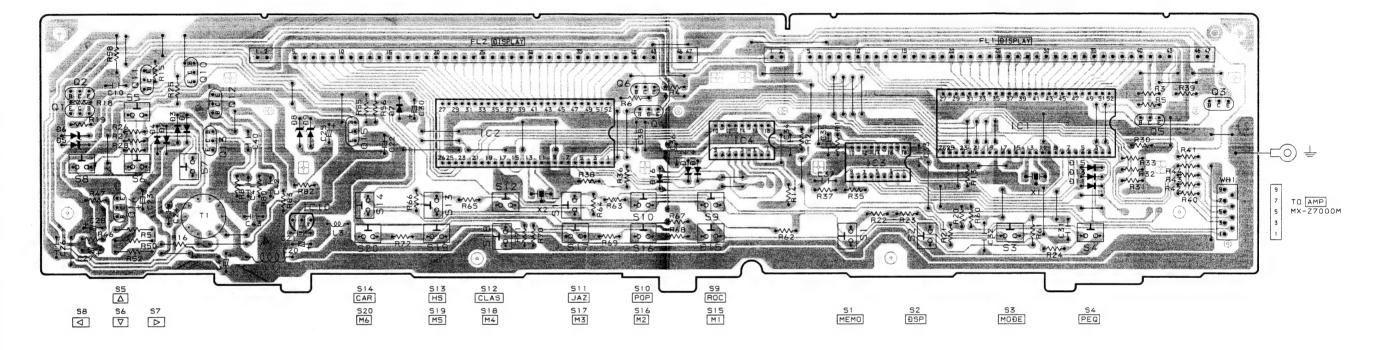
ANODE CONNECTION

	G9	G8	G7	G6	G5	G4	G3	G2	G1
P1		B1	B1	B1	· B1	B1	B1	B1	B1
P2		B2	B2	B2	B2	B2	B2	B2	B2
P3		B3	B3	B3	B3	B3	B3	B3	B3
P4		B4	B4	B4	B4	B4	B4	B4	B4
P5		B5	B5	B5	B5	B5	B5	B5	B5
P6		B6	B6	B6	B6	B6	B6	B6	B6
P7	S5	B7	B7	B7	B7	B7	B7	B7	B7
P8	_	B8	B8	B8	B8	B8	B8	B8	B8
P9	_	B9	B9	B9	B9	B9	B9	B9 · ·	• B9
P10	_	B10	B10	B10	B10	B10	B10	B10	B10
P11	-	B11	B11	B11	B11	B11	B11	B11	B11
P12	-	B12	B12	B12	B12	B12	B12	B12	CAR) <
P13	_	B13	B13	B13	B13	B13	B13	B13	
P14	-	B14	B14	B14	B14	B14	B14	B14	>(CLASSIC)✓
P15	_	B15	B15	B15	B15	B15	B15	B15	⇒ (JAZZ)
P16	-	B16	B16	B16	B16	B16	B16	B16	○ (POP) <
P17	-	B17	B17	B17	B17	B17	B17	B17	>(ROCK)<
P18	_	B18	B18	B18	B18	B18	B18	B18	S1
P19	-	B19	B19	B19	B19	B19	B19	B19	-
P20	-	B20	B20	B20	B20	B20	B20	B20	_
P21		B21	B21	B21	B21	B21	B21	B21	_
P22	_	B22	B22	B22	B22	B22	B22	B22	_
P23	_	S4	_	_	_	-	_	_	S2
P24		S3	S3	S3	S3	S3	S3	S3	_





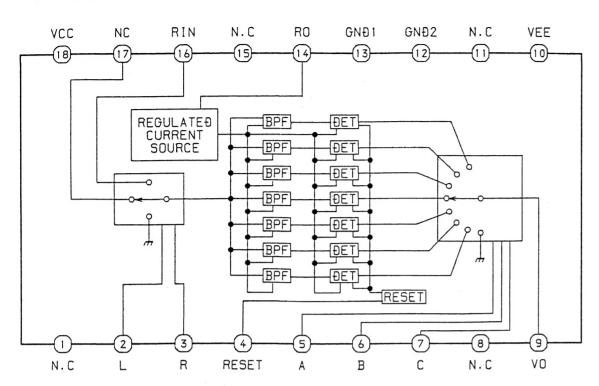
A MAIN C.B



GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

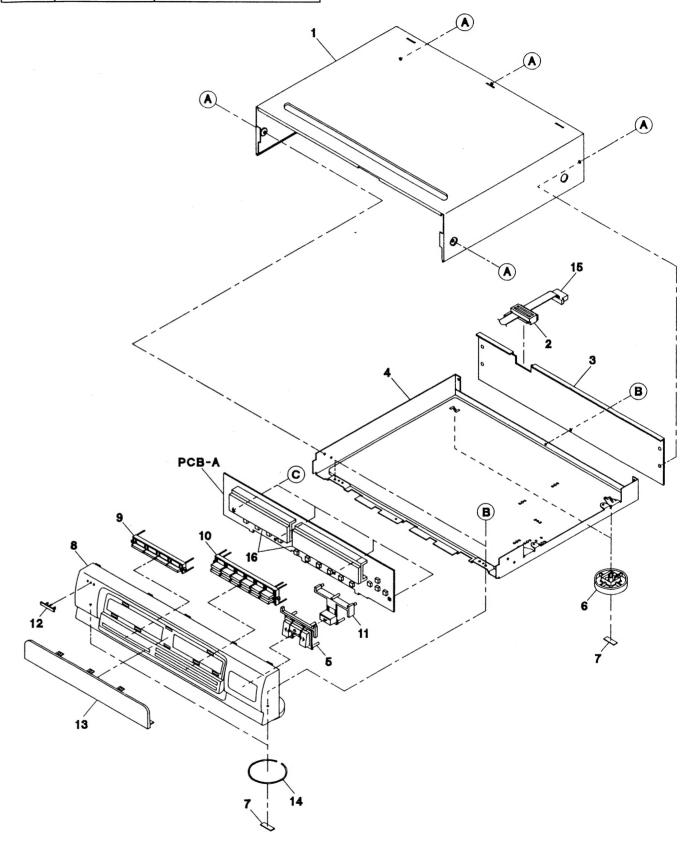
(プリント基板内のケミコンの極性表示はθ表示です。)

IC BLOCK DIAGRAM (GE-Z7000) IC, BA3826S



EXPLODED VIEW (GE-Z7000)

REF. NO.	PART NO.	DESCRIPTION
A	87-067-641-019	UTT2+3-8 W/O SLOT BLK
B	87-067-660-019	BVT2+3-8 W/O SLOT BLK
C	87-067-703-019	BVT2+3-10 W/O SLOT



MECHANICAL PARTS LIST (GE - Z7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★82-VT1-009-119	CAB, STEEL		1
	2	★ 89-VT5-202-010	BUSHING, CORD		1
	3	★ 82-VU1-012-019	PANEL, REAR YBNE (Y)	*	1
	3	★ 82-VU1-014-019	PANEL, REAR YJBN (YJ)	*	1
	4		CHAS, MAIN		1
	5	★ 82-VU1-004-019	KEY, UP	*	1
	6	★81-VX1-012-019	FOOT, REAR		2
	7	★82-VW2-211-019	FELT 20 - 7.5 - 2		4
	8	★82-VU1-001-019	CAB, FR	*	1
	9	★82-VU1-002-019	KEY, 1	*	1
	10	★82-VU1-003-019	KEY, 2	*	1
	11	★82-VU1-005-019	KEY, DOWN	*	1
	12	★81-DS1-011-019	BADGE, AIWA N		1
	13	★82-VU1-006-019	WINDOW	*	1
	14	★81-VW1-015-019	RING, FRONT		2
	15	*82-VU1-632-019	CORD, 9P FG55CM	*	1
	16	★81-DS2-204-219	GUIDE FL		1

${ m SX-Z7000}$

■ SPEAKER LIST (SX - Z7000)

REF. NO.	PART NO.	DESCRIPTION
1 82	2 - V S 1 - 0 0 3 - 0 1 0	PANEL W
2 82	2 - V S 1 - 0 0 4 - 0 1 0	PANEL T ASSY
3 82	2-VS1-010-010	GRILL FRAME ASSY
4 82	2 - V S 2 - 6 0 2 - 0 1 0	SPEAKER WOOFER
5 82	2 - V S 1 - 6 0 3 - 0 1 0	SPEAKER TWEETER
6 81	1 - 672 - 612 - 010	SPEAKER CORD (H,HE,HR)
7 82	2 - V S 2 - 0 2 5 - 0 1 0	SPEAKER CORD (E,K,Z)

REFERENCE NAME LIST

ELECTRICAL	SECTION
DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR C-VR C-ZENER CAP, CER CAP, E	SLIDE SWITCH, CHIP SWITCH, CHIP TRANSISTOR, CHIP VOLUME, CHIP ZENER, CHIP CAP, CERA-SOL CAP, ELECT
CAP TC	CAP, FILM CAP, CERA-SOL CAP, CERA-SOL SS CAP, TANTALUM FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI PPCAP PT PTR, RES RC	VARIABLE CAPACITOR CAP.PP POWER TRANSFORMER PTR.MELF REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR TRIMMER TUN-CAP VIB, CER VIB, XTAL	TRANSISTOR CAP, TRIMMER VARIABLE CAPACITOR RESONATOR, CERAMIC RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサブレッサ	SERGESUPPRESSOR
セラコン	CAP, CERA

MECHANICAL S	SECTION
DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BAT, CONTACT ASSY	BATTERY CONTACT ASSY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR FUN G-CU HDL HIMERON	FRONT FUNCTION G-CUSHION HANDOL CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
KNOB, VOL REV	KNOB, VOLUME REV
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT PANEL, FR PRGM PULLY, LOAD MO RBN	PANEL, CONTORL PANEL, FRONT PROGRAM PULLY, LOADING MOTOR RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
SW	SWITCH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジクアーム	ARM, SHAFT
ジクガイド	GUIDE, SHAFT
ストラップ	STRAP
ヒンジ	HINGE